Manual of Carpentry
and Catalog of

AMERICAN NAILS, WIRE BARBED WIRE STAPLES

TACKS » POULTRY NETTING, ETC.

American Steel & Wire Company

SUBSUITARY OF UNITED TO STATES STEEL CORPORATION

MINIMER BY ASSOCIATION FOR PRESERVATION TECHNOLOGY, WANN ARRIGIDS FOT THE

Catalogue of

American NAILS, WIRE, BARBED WIRE, STAPLES

Tacks, Poultry Netting, etc.



Manual of Carpentry Section Page 72

Index—Pages 114 and 115

Subject to Change Without Notice



The primary value of a nail is in the quality of the steel and in the perfect drawing of the wire, then in the shaping of the head and the cutting of the point. Where

the hard steel quality is used in the wire, which is most requisite and necessary for the stiffness of the nail, the shaping of the head and the cutting of the point is naturally difficult and expensive; while if a softer quality of steel is used, it is easier and cheaper. Hence the basic merit of the nail is least apparent on sight—it is hidden in the sturdy character of the hard steel that is demonstrated only in driving. There is real economy in buying this quality as the softer quality may spoil a job and the consequent damage done makes it high at any price.

The heads and points of our nails are shaped from this hard, sturdy steel, by the most deft machinery, under the keen supervising eye of inspectors. Study an American Steel & Wire Company's nail, note the clean, sharp point, the firm set head showing ample metal, the well punched barbing, the accurate gauge, and above all test that which does not appear at first glance—the great strength of the steel that holds straight in driving according to the work for which intended.

And further, our nails are packed full weight, 100 pounds net, in each keg.



Have Been Tried by Many Standards

The substantial reputation of these coated nails is gained from many years of faithful service. The holding ability of the coating compound has been measured and tried by experience and proven adequate for any service where necessary to employ nails of extra-ordinary holding tenacity.

Our Galvanizing

Originally, with the inception of non-rusting coverings for wire, our product was the best. With the progress of years we have held to that standard. As in our steel, we have led in new metallurgical improvement through the years, without special announcement nor boasting. For many centuries the drawing of wire through dies is the same principle, but the quality of metal in the dies, the accuracy of gauge and the smoothness of the surface and the quality of the steel, have constituted the Steelmaker's progress. Quality of metal, roundness and smoothness of surface and advanced methods of application of the galvanizing, is the record of yearly advance, until today we claim for our products the highest type of strength, quality and endurance possible yet to attain. The American Steel & Wire Company guarantees this to all purchasers and solicits your orders upon this basis.

ZINC COATING. This name is used to indicate the different process of galvanizing employed with nails and other small pieces of steel. Because of their short lengths these pieces are dipped in hot zinc after shaping, making a thorough homogeneous coating to withstand the extra abrasive operation of driving and yet hold the coating firm and intact. All our zinc coated nails are thus treated and we guarantee their efficiency for all purposes intended.

Miscellaneous Nails and Brads in Packages

FLAT HEAD WIRE NAILS

in Orange and Black packages

WIRE BRADS

..in Green and Black packages.



LARGE MARKINGS DETERMINE BOTH SIZE and STYLL

List Prices of Miscellaneous Wire Nails and Wire Brads

(For Pearson Coated Nail List see Pages 49 to 54)

Subject to change without notice. Per Pound for 1, 5 or 10-Pound Package. In ordering, state whether flat heads or brad heads are wanted.

io.	1-Inch	No.	1/2-Inch	No.	%-Inch		11/4 and	13/almah	27-	21/4-Inch
	\$1.80		Continued			22	No.	A /8-AHCH		
								60 30	3	to 10 \$0.2
	2.20	21				.33	13			
	2.40		1.25			.33	14		13.	
						.33			13.	
••••	2.00	24	1.90	112		.33	15	32	14.	
0.						35	17			
	\$1.00	No.	%-Inch	15		.36	17	39		21/2-Inch
	1 35	12.	\$0.43	122		.39			31	to 10\$0.2
	1.55	13.		17			73/ 2	18/ Y -	11.	
				110		45	No.	178-Inch	12.	
				10		.56			13.	
				20			4 to 13.	\$0.29		
				20.		.67	14	30	No.	23/4-Inch
					1-Inch		15			to 10 \$0.2
			6	No.	1-Inch	_	16	33	11	
0.	3/- Took	26			o 12\$0	.30	17	38	12	
0.	\$0.80	21		13.		.31			1	
٠.,	\$0.80	22	1 10	14.		.32			No.	3-Inch
		23	1.45			.33	No. 13/4	Inch	3	to 10 \$0.2
٠.,		24	1.65			.36	4 to 13	\$8.28	11	
				17.		.40	14	39	12	
	1.55	No.	3/4-Inch	18.		.43	15	30	10.	
3	1.95	10.		19.		.53	16	23	No	31/4-Inch
	2.15	11	36	20		.64	17	38		to 10 \$0.2
5	2.40	13	24			_				
٠.,	2.80	13		No.	1 %-Inch				13.	
					0 12 \$0	30	No. 2-1	nob	12.	
0.	1/2-Inch					.31			No	31/2-Inch
	\$0.55						11			0 10 \$0.2
				115			12			
				16		25	13	28	11.	
				17		40	14	28	No	4-Inch
				10		42	15			
				10.		-23	16	30		to 10 \$0.2

See Quantity Extras on Less Than 100 Pound Items Not Carried in Stock List of Extras and Deductions from List Prices

List of Extras and Deductions from List Prices
Subject to Discount
Add to list 4 cents per pound for cement coating,
Add to list 6 cents per pound for ½-pound paper boxes,
Add to list 12 cents per pound for ½-pound paper boxes,
Add to list 3 cents per pound for barbing,
Add to list 3 cents per pound for annealing,
Add to list 3 cents per pound for bluning,
Add to list 3 cents per pound for bluning,
Add to list 3 cents per pound for Special Heads or Headless,
Add to list 3 cents per pound for Needle Points or any Special Points.
For 10-pound wooden boxes add to net prices 50 cents per 100 For 10-pound wooden boxes add to net prices 50 cents per 100

Deduction for 25 and 50-pound wooden boxes, 2 cents per pound. Deduction for 100-pound kegs, 4 cents per pound.

For lengths not listed, use list price for same gauge in nearest shorter

For nails, finer than full gauge, apply list price of same length in next finer gauge. For example, for No. 18½ gauge use No. 19, etc. Nails heavier than listed at special net prices, according to quantity. Galvanizing, tinning, brass plating, coppering nails, at special prices.

Stock items of Bright Miscellaneous Wire Nails and Brads regularly furnished in any quantity—kegs, wooden boxes and papers.

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	B	RICHT-	ET AT HEAD SI	MOOTH WIDE	TATE DIAME	OND DOING
1				3/ - 16	VAILS—DIAMO	
1			No. 3/ v 18	74 x 10	3/ × 14	% X 12
12 x 20			18 % x 18	No. 1 × 16	76 x 14	1 × 19
20 \$\frac{3}{2} \times 20		% X 20	1 x 18	16 11/4 x 16	No. 1 x 14	No. 11/ x 12
20 \$\frac{3}{2} \times 20	No	56 x 20		1½ x 16	14 11/4 x 14	12 11/2 x 12
1		8/ x 20	1½ x 18	1½ x 16	1½ x 14	13/4 x 12
3		₹ x 20	1/6 x 17	1¾ x 16	13/4 x 14	2 x 12
3		1 x 20	5% x 17	2 x 16	2 x 14	$2\frac{1}{2} \times 12$
No. \$\frac{5}{4} \times 19 \\ \frac{1}{14} \times 17 \\ \frac{1}{10} \times \frac{5}{4} \times 19 \\ \frac{1}{14} \times 17 \\ \frac{1}{12} \times 18 \\ \frac{1}{12} \times 18 \\ \frac{1}{12} \times 18 \\ \frac{1}{12} \times 18 \\ \frac{1}{12} \times 17 \\ \frac{1}{12} \times 18 \\ \frac{1} \times 17 \\ \frac{1} \times 17 \\ \frac{1} \times 18 \\ \frac{1} \times 17 \\ \			84 x 17	5/8 x 15	3/4 x 13	3 x 12
No. \$\frac{5}{4} \times 19 \\ \frac{1}{14} \times 17 \\ \frac{1}{10} \times \frac{5}{4} \times 19 \\ \frac{1}{14} \times 17 \\ \frac{1}{12} \times 18 \\ \frac{1}{12} \times 18 \\ \frac{1}{12} \times 18 \\ \frac{1}{12} \times 18 \\ \frac{1}{12} \times 17 \\ \frac{1}{12} \times 18 \\ \frac{1} \times 17 \\ \frac{1} \times 17 \\ \frac{1} \times 18 \\ \frac{1} \times 17 \\ \		1/2 x 19	No. 7/8 x 17	8∕4 x 15	₹ x 13	
1	No.	8/8 x 19	17 1 x 17	₹ x 15	1 x 13	
1	19	3/4 x 19	1½ X 17	No. 1 x 15	No. 1% X 13	3 x 11
No. \$\frac{3}{8} \times \frac{18}{18} \frac{1}{2} \times \frac{16}{16} \frac{10}{16} \frac{1}{16} \frac{1}{16} \qu		₹ x 19	1% X 17	15 1½ x 15	13/ v 13	No. 2 x 10
No. 3/4 x 18 16 7/2 x 16 2 x 15 23/2 x 13 3 x 10		1 x 19		13/ × 15		10 2½ x 10
BRIGHT—WIRE BRADS—DIAMOND POINT No. 3/4 x 19 1/2 x 19 1/2 x 16 1/2 x 19 1/2 x 16 1/2 x 14 1/2 x 15 1/2 x 19 1/2 x 16 1/2 x 17 1/2 x 17 1/2 x 16 1/2 x 17 1/2		3/8 x 18		2 × 15		3 x 10
BRIGHT—FLAT HEAD—SMOOTH NAILS—NEEDLE POINT	18	½ x 18	10 % X 16	2 210		
No. 3\(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(BRIGH	T-FLAT HEAL	-SMOOTH NA		POINT
No.		3/8 x 21	1 x 19	No. 1/8 x 17	2 x 16	
No.	21	1/2 x 21	36 x 18	17 1 x 17		34 11/ 14
1		3/8 x 20	.16 x 18	1¼ x 17	7/4 x 15	13/4 x 14
1		½ x 20	No. 5/8 x 18	1½ x 17	No. 1 x 15	2 x 14
No. \(\frac{9}{34} \times \text{19} \) No. \(\frac{1}{2} \times \text{17} \) 10 \(\frac{1}{2} \times \text{16} \) 17 \(\frac{1}{2} \times \text{17} \) 11 \(\frac{1}{2} \times \text{16} \) 14 \(\frac{1}{2} \times \text{14} \) 19 \(\frac{3}{2} \times \text{17} \) 12 \(\frac{1}{2} \times \text{16} \) 14 \(\frac{1}{2} \times \text{14} \) 12 \(\frac{1}{2} \times \text{18} \) 17 \(\frac{1}{2} \times \text{16} \) 12 \(\frac{1}{2} \times \text{14} \) 12 \(\frac{1}{2} \times \text{18} \) 17 \(\frac{1}{2} \times \text{16} \) 12 \(\frac{1}{2} \times \text{14} \) 13 \(\frac{1}{2} \times \text{12} \) 18 \(\frac{1}{2} \times \text{18} \) 17 \(\frac{1}{2} \times \text{16} \) 12 \(\frac{1}{2} \times \text{14} \) 12 \(\frac{1}{2} \times \text{14} \) 12 \(\frac{1}{2} \times \text{18} \) 13 \(\frac{1}{2} \times \text{16} \) 12 \(\frac{1}{2} \times \text{14} \) 12 \(\frac{1}{2} \times \text{14} \) 13 \(\frac{1}{2} \times \text{18} \) 13 \(\frac{1}{2} \times \text{16} \) 13 \(\frac{1}{2} \times \text{14} \) 13 \(\frac{1}{2} \times \text{14} \) 18 \(\frac{1}{2} \times \text{16} \) 13 \(\frac{1}{2} \times \text{13} \) 11 \(\frac{1}{2} \times \text{13} \) 12 \(\frac{1}{2} \times \text{18} \) 13 \(\frac{1}{2} \times \text{16} \) 13 \(\frac{1}{2} \times \text{13} \) 13 \(\frac{1}{2} \times \text{17} \) 13 \(\frac{1}{2} \times \text{15} \) 13 \(\frac{1}{2} \times \text{13} \) 10 \(\frac{1}{2} \times \text{16} \) 13 \(\frac{1}{2} \times \text{13} \) 13 \(\frac{1}{2} \times \text{13} \) 13 \(\frac{1}{2} \times \text{19} \) 17 \(\frac{1}{2} \times \text{17} \) 15 \(\frac{1}{2} \times \text{15} \) 13 \(\frac{1}{2} \times \text{13} \) 10 \(\frac{2}{2} \times \text{10} \) 19 \(\frac{1} \times \text{10} \) 14 \(\text{15} \) 13 \(\frac{1}{2} \times \text{13} \) 13 \(\frac{1}{2} \times \text{10} \) 19 \(\frac{1}{2} \times \text{19} \) 17 \(\frac{1}{2} \times \text{15} \) 13 \(\frac{1}{2} \times \text{13} \) 13 \(\frac{1}{2} \times \text{15} \) 13 \(\frac{1}{2} \times \text{13} \) 13 \(1	20	5/8 x 20	18 34 x 18	5% v 16	15 1¼ x 15	2½ x 14
No. \(\frac{9}{34} \times \text{19} \) No. \(\frac{1}{2} \times \text{17} \) 10 \(\frac{1}{2} \times \text{16} \) 17 \(\frac{1}{2} \times \text{17} \) 11 \(\frac{1}{2} \times \text{16} \) 14 \(\frac{1}{2} \times \text{14} \) 19 \(\frac{3}{2} \times \text{17} \) 12 \(\frac{1}{2} \times \text{16} \) 14 \(\frac{1}{2} \times \text{14} \) 12 \(\frac{1}{2} \times \text{18} \) 17 \(\frac{1}{2} \times \text{16} \) 12 \(\frac{1}{2} \times \text{14} \) 12 \(\frac{1}{2} \times \text{18} \) 17 \(\frac{1}{2} \times \text{16} \) 12 \(\frac{1}{2} \times \text{14} \) 13 \(\frac{1}{2} \times \text{12} \) 18 \(\frac{1}{2} \times \text{18} \) 17 \(\frac{1}{2} \times \text{16} \) 12 \(\frac{1}{2} \times \text{14} \) 12 \(\frac{1}{2} \times \text{14} \) 12 \(\frac{1}{2} \times \text{18} \) 13 \(\frac{1}{2} \times \text{16} \) 12 \(\frac{1}{2} \times \text{14} \) 12 \(\frac{1}{2} \times \text{14} \) 13 \(\frac{1}{2} \times \text{18} \) 13 \(\frac{1}{2} \times \text{16} \) 13 \(\frac{1}{2} \times \text{14} \) 13 \(\frac{1}{2} \times \text{14} \) 18 \(\frac{1}{2} \times \text{16} \) 13 \(\frac{1}{2} \times \text{13} \) 11 \(\frac{1}{2} \times \text{13} \) 12 \(\frac{1}{2} \times \text{18} \) 13 \(\frac{1}{2} \times \text{16} \) 13 \(\frac{1}{2} \times \text{13} \) 13 \(\frac{1}{2} \times \text{17} \) 13 \(\frac{1}{2} \times \text{15} \) 13 \(\frac{1}{2} \times \text{13} \) 10 \(\frac{1}{2} \times \text{16} \) 13 \(\frac{1}{2} \times \text{13} \) 13 \(\frac{1}{2} \times \text{13} \) 13 \(\frac{1}{2} \times \text{19} \) 17 \(\frac{1}{2} \times \text{17} \) 15 \(\frac{1}{2} \times \text{15} \) 13 \(\frac{1}{2} \times \text{13} \) 10 \(\frac{2}{2} \times \text{10} \) 19 \(\frac{1} \times \text{10} \) 14 \(\text{15} \) 13 \(\frac{1}{2} \times \text{13} \) 13 \(\frac{1}{2} \times \text{10} \) 19 \(\frac{1}{2} \times \text{19} \) 17 \(\frac{1}{2} \times \text{15} \) 13 \(\frac{1}{2} \times \text{13} \) 13 \(\frac{1}{2} \times \text{15} \) 13 \(\frac{1}{2} \times \text{13} \) 13 \(1		3/4 x 20	₹ x 18	8/ x 16	1½ x 15	1½ x 13
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19 34 x 19 17 36 x 17 11/2 x 16 14 76 x 14 12/2 x 13		½ x 19		140- 1 X 10	4 A 10	10 1% X 10
Sec. 19 Sec. 17 Sec. 18 Sec. 19 Sec.		5/8 x 19	No. ½ x 17	16 11/4 x 16	No. 3/4 x 14	2 x 13
BRIGHT-WIRE BRADS-DIAMOND POINT	19	34 x 19	17 % x 17	1½ x 16	14 1/8 x 14	2½ x 13
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_					
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-		BRIGHT-WIR	E BRADS-DI	AMOND POINT	
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		8/04	No. 34 x 19	No. 11/4 x 17	1 x 14	1½ x 12
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			19 1/8 X 19	17 1½ x 17	1¼ x 14	13/4 x 12
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3/8 x 22	1 X 19	5⁄8 x 16	N- 13/ - 14	No. 2 x 12
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22		½ x 18	34 x 16	14 2 = 14	21/4 x 12
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3/8 x 21	% x 18	% x 16	21/ × 14	28/ × 12
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21	½ x 21	No 7/4 x 18	No. 1 X 16	2½ x 14	3 x 12
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			18 1 x 18	11/6 x 16	3 x 14	No 2 v 11
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3/8 x 20	1½ x 18	134 x 16	11/6 x 13	11 216 x 11
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1½ x 18	2 x 16	13/4 x 13	3 x 11
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20	% x 20	5/s x 17	1 v 15	No. 2 x 13	2 = 10
19 1 x 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			No. 34 x 17	No. 11/4 x 15	13 2½ x 13	No. 216 v 10
1 x 17 1½ x 15 4 x 10 2 x 15 4 x 10 2 x 15		½ x 19	10 /8 X 11	15 1½ x 15	2½ x 13	10 3 x 10
BRIGHT—WIRE BRADS—NEEDLE POINT No. 3/4 x 20 3/4 x 19 11/4 x 18 No. 5/4 x 16 11/4 x 16	19	% X 19	1 x 17	1% x 15	3 x 13	
No. 3/8 x 20 3/4 x 19 11/4 x 18 No. 5/8 x 16 11/4 x 16				2 x 15		
No. 3/8 x 20 3/4 x 19 11/4 x 18 No. 5/8 x 16 11/4 x 16			BRIGHT-WII	RE BRADS—N		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		3/8 x 20			No. 5/8 x 16	1½ x 16
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20	½ x 20	No. 1/2 x 18		16 3/ x 16	
76×10^{-2} $76 \times$		% x 20	18 5/8 x 18	17 3/4 x 17	₹ x 16	15 11/4 x 15
No. ½ x 19			% x 18	₹ x 17	1 x 16	
19 78 x 19 1 x 18 1½ x 17			√8 x 18	1 x 17		
	19	78 X 19	1 x 18	1½ x 17		

All Other Sizes and Styles at Following Quantity Extras for Lots of Less Than 100 Pounds of an Item.

10 lbs. to 24	lbs.,	inc\$1.50 per item
25 lbs. to 49	lbs.,	inc 1.25 per item
50 lbs. to 74	lbs.,	inc 1.00 per item
75 lbs. to 99	lbs.,	inc

These extras apply over the 100 pound price.

On special items not carried in stock no orders for less than 10 pounds will be accepted.

Quantity Extras effective as of Oct. 30, 1931

Miscellaneous Wire Nails and Brads Tinned—Galvanized—Coppered Blued and Pearson (Cement) Coated

On items of less than 100 pounds, the following extras will be charged in addition to regular finishing extra. These are in addition to quantity extras quoted above.

1 to	4	pounds,	inc	\$10.00 per 100 lbs
5 to	9	pounds,	inc	. 5.50 per 100 lbs
10 to	19	pounds.	inc	3.50 per 100 lbs
20 to	24	pounds.	inc	1.75 per 100 lbs
25 to	49	pounds,	inc	1.50 per 100 lbs
30 to	99	pounds,	inc	. 1.00 per 100 lbs.

Standard Nail Card

Effective December 1, 1927 Cancelling all previous issues

Extras on Standard Wire Nails in Kegs

Common Nails	Common Brads	Barbed Roofing	Clinch Nails	Sterilized Blued
2d\$1.65	2d\$1.70	Nails Regular Head	2d\$1.55	Lath Nails
3d 1.15	3d 1.20	3/4-inch\$1.55	3d 1.35	2d\$2.55
4d	4d	3/4-inch\$1.55 7/8-inch1.30	4d 1.10	2d Light 2.75
5d	5d	1 -inch 1.20	5d 1.00	3d 1.95
	6d	114-inch 1 10	6d	3d Light 2.50
	7d	1 ¼-inch95 1 ¼-inch90 1 ½-inch80 1 ¼-inch75	7d	Barrel Nails
	8d55	1%-inch90	8d80	
9d	9d50	11/2-inch80	9d	%-inch\$2.45
12d35	10d	13/4-inch75	10d	
16d30	12d40	2 -inch65	12d	%-inch 1.45 1 -inch 1.25
20d,25	16d	Power Matte	16d60	1½-inch 1.20
30d	20d30 30d30	Fence Nails	20d55	1½-inch 1.20 1½-inch 1.15
40d	40d30	5d\$0.60 6d55	Barbed Car Nails	13/g-inch95
50d	50d		Bright	1½-inch90
60d	60d30	7d45 8d45	Light Heavy	
	994	9d	4d\$1.05 \$0.95	Berry Box Nails
Casing Nails	Shingle Nails	10d	5d85 .80	Smooth
2d\$1.70		12d	6d80 .75	No. 16 No. 17
3d 1.20	3d\$1.05	16d	7d70 .70	3/4-in.\$2.80 \$3.00
4d.: 1.05	31/2d85	20d	8d70 .70	7/8-in. 2.55 2.75
.5d	4d80		9d65 .65	1 -in. 2.35 2.55
6d	5d	Hinge Nails	10d65 .65	1½-in. 2.30 2.50 1½-in. 2.25 2.45
7d	6d	Bright	12d60 .60	11/4-in. 2.25 2.45
8d60	Smooth Box	Light Heavy	16d55 .55	Spikes
9d 555		4d.,.\$0.95 \$0.95	20d50 .50 30d50 .50	
10d50	Nails	6d80 .80		10d\$0.40
12d	24\$1.65	8d75 .75	50d50 .50	12d
16d	3d 1.15	10d70 .80		16d30
20d	4d 1.00	12d65 .75		20d
40d30	5d	16d60 .70	Clout Nails	30d
400	6d	20d55 .65	3/4-inch\$2.40	
Flooring Brads	7d60		%-inch 1.75	60d
6d\$0.65	8d	Finishing Nails	1 -inch 1.55	
7d60	9d50	2d\$2.25	11/4-inch 1.50	
8d	10d	3d 1.60	1½-inch 1.35 1½-inch 1.25	9-inch35
9d	16d	4d 1.45	13/4-inch 1.25	10-inch45
10d	20d	5d 1.35	11/2-inch 1.20	12-inch45
12d	30d	6d80		
16d	40d	7d		owel Pins
20d	100111111111111111111111111111111111111	8d		No. 10 No. 11 No. 12 0 \$2.00 \$2.20 \$2.45
Boat Nails	Siding Nails	9d	%-in. \$1.75 \$1.5 3/4-in. 1.50 1.6 7/8-in. 1.35 1.5	
	Same advance as	12d	%-in. 1.35 1.5	
Bright	Smooth Box Nails	16d	1 -in. 1.25 1.4	
4d\$0.95 \$0.95		20d	11/ 1 1 15 1 2	
6d80 .80	Slating Nails		1½-in. 1.10 1.2 1½-in. 1.05 1.2 1½-in. 1.00 1.1	
8d75 .75	2d\$1.20	Fine Nails	1%-in. 1.05 1.2	0 1.30 1.40 1.65
10d70 .80	3d1.00	2d\$2.20	11/2-in. 1.00 1.1	
12d65 .75	4d	2d Extra 2.40	11%-in95 1.1	0 1.20 1.30 1.55
16d60 .70	5d	3d 1.60	134-in90 1.0	
20d55 .65	6d	3d Extra 2.15		0 1.10 1.20 1.45

Special Extras on Standard Wire Nails

(Except as provided above)

Annealed Nails, 25c per 100 lbs. extra.
Blued Nails, 35c per 100 lbs. extra.
Barbing Nails, 25c per 100 lbs.
Special Heads, 15c per 100 lbs. extra.
Special Points, 15c per 100 lbs. extra.
Galvanizing, prices on application.
Pearson (Cement) Coating 25c per 100 lbs. extra.

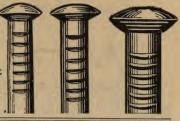
Common Nails



20d 8d 7d 6d 16d 12d 10d 9d Extra Approx. Size Length and Gauge Over Base Price No. to Lb. $\begin{array}{c}
1 \\
1 \frac{1}{4} \\
1 \frac{1}{2} \\
1 \frac{3}{4}
\end{array}$ 2dinch No. 15 \$1.65 876 3d 14 1.15 568 12½ 12½ 11½ 11½ 11½ 4d .80 316 5d .70 271 .60 2 1/4 2 1/2 2 3/4 3 1/4 3 1/2 6d 181 7d .55 161 8d .50 106 44 9d 101/4 .45 96 10d 9 .40 69 9 .35 63 .30 16d 8654 49 20d $.25 \\ .25$ 4 31 41/2 30d 24 5 ½ 5½ a .25 .25 .25 40d 18 3 2 50d 14 60d 11 American Steel & Wire Co.'s Steel Wire Gauge Illustrations Actual Size Flat Head Diamond Point

Barbed nails furnished in all sizes and styles at 25c per 100 lbs. over smooth.

Round Wire Spikes Countersunk Oval Head, Chisel Point



Am. Steel & Wire Co.'s Steel Wire Gauge

Length	and Ga	uge	Extra Over Base Price	Degree of Counter- sunk	Head Rad.	Dia. Head	Approx. No. to Pound
3 in	ch No	. 6	\$0.40	123	7/16	13/32	41
3/4	"	6	.35		-		38
3/2	66 66	5	.30	123	7/16	7/16	30
4		4	.25	123	7/16	15/32	23
4/2		3	.25	123	7/16	1/2	17
0	66	2	.25	123	7/16	17/32	13
372		1	.25			. 02	10
0	£ 66	1	.25	123	7/16 5/8 3/4	9/16	9
4		inch	.25	123	5/8	E /	6
0	3/8	"	.35	123	3/4	· 3/8 3/4	4
9	4 3/8	"	.35			/ =	31/2
10	4 3/8	"	.45				3
12 '	4 3/8	u	.45				21/2

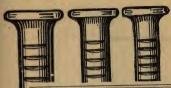
Special Gauges, 10c additional.





Lengths up to 16" supplied in various gauges.

Prices on Application



Round Wire Spikes Flat Head, Diamond Point

Am. Steel & Wire Co.'s Steel Wire Gause

Length and Gauge	Extra Over Base Price	Degree of Counter- sunk	Diam. Head	Approx. No. to Pound
3 inch No. 6	\$0.40	123	13/32	41
31/4 " " 6	. 35			38
31/2 " " 5	.30	123	7/16	30
4 " " 4	.25	123	15/32	23
41/2 " " 3	.25	123	1/2	17
4½ " " 3	.25	123	17/32	13
5½ " " 1	.25			10
6 " " 1	.25	123	9/16 5/8 3/4	9
7 " 5/16 inch	.25	123	5/8	6
8 " 3/8 "	.35	123	3/4	4
9 " 3% "	.35			31/2
10 " 3% "	.45			3
12 " 3/8 "	.45			21/2





Special Gauges, 10c additional.



Lengths up to 16" supplied in various gauges.

Prices on Application



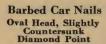
In ordering Car Nails be sure to specify whether Light or Heavy, Annealed or Bright, Oval or Flat

Illustrations Actual Size

Light, Bright

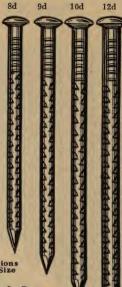
American Steel & Wire Co.'s Steel Wire Gauge

Size	Le	ngth a	nd Ga	uge	Extra Over Base Price	Deg. Csk.	Dia. Head	Approx. No. to Lb.
4d 5d 6d 7d 8d 9d 10d 12d 16d 20d 30d 40d 50d 60d	11/3/4 21/4 21/2 23/4 31/4 31/4 41/2 5 51/2 6	inch.	No	12 10 10 9 9 8 7 7 6 6 5 4	\$1.05 .85 .80 .70 .65 .65 .60 .55 .50	123 123 123 123 123 123 123 123 123 123	Total Company (Co.) (Co.	274 142 124 92 82 62 57 50 43 31 28 21
000					.001	123	37	15





In ordering Car Nails besure to specify whether Light or Heavy, Annealed or Bright, Oval or Flat Head.



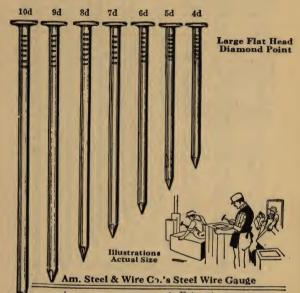
Illustrations Actual Size

Heavy, Bright

American Steel & Wire Co.'s Steel Wire Gauge

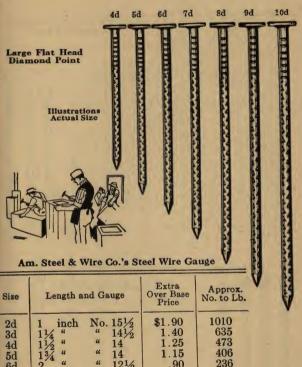
The dot of the date									
Size	Length a	nd Gauge	Extra Over Base Price	Deg. Csk.	Dia. Head	Approx. No.to Lb.			
4d 5d 6d 7d 8d 9d 10d 12d 16d	1½ inch 13¼ " 2 " 2½ " 2½ " 2½ " 3¾ " 3¼ " 3½ "	No. 10	\$0.95 .80 .75 .70 .65 .65 .60	123 123 123 123 123 123 123 123 123	9 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	165 118 103 76 69 54 50 42 35			
20d	4 "	4 5	.50	123	32 7 16	26			
30d	41/2 "	" 5	.50	123	7	24			
40d	5 "	a 4	50	123	32	18			
50d	51/2 "	4 3	.50	123	1/2	15			
60d	6 "	4 3	.50	123	1/2	13			

Smooth Box Nails



Size	Length a	nd C	lauge	Extra Over Base Price	Dia. Head	Approx. No. to Lb.
2d	1 inch	No.	151/2	\$1.65	3/16	1010
3d	11/4 "	"	141/2	1.15	7/82	635
4d	11/2 "	"	14	1.00	7/32	473
5d	13/4 "	66	14	.90	7/32	406
6d	2 "	"	121/2	.65	17/64	236
7d	21/4 "	u	121/2	.60	11/64	210
8d	21/2 "	ш	111/2	.55	1964	145
9d	23/4 "	"	111/2	.50	1964	132
10d	3 "	"	101/2	.45	5/16	94
12d	31/4 "	"	101/2	.40	5/16	88
16d	31/2 "	"	10	.35	11/32	71
20d	4 "	"	9	.25	3%	52
30d	41/2 "	u	9	.25	3%	46
40d	5 "	ш	8	.25	13/32	35

Barbed Box Nails



Size	Length and Gauge		Over Base Price	No. to Lb.	
2d	1 inch	No. 15½	\$1.90	1010	
3d	11/4 "	" 141/2	1.40	635	
4d	11/6 "	" 14	1.25	473	
5d	134 "	" 14	1.15	406	
6d	2 "	" 121/2	.90	236	
7d	21/4 "	" 121/2	.85	210	
8d	21/2 "	6 111%	.80	145	
9d	23/4 "	" 111/2	.75	132	
10d	234 "	" 101/2	.70	94	
12d	31/4 "	" 101/2	.65	88	
16d	31/2 "	" 10	.60	71	
20d	4 "	" 9	.50	52	
30d	41/2 "		.50	46	
40d	5 "	" 9 " 8	.50	35	
70U	10		1 100		

Casing Nails



Deep Countersunk Head, Diamond Point

Am. Steel & Wire Co.'s Steel Wire Gauge

Size	Length and Gauge	Extra Over Base Price	of Counter-	Dia. Head Ga.	Apprx. No.to Lb.
2d 3d 4d 5d 6d 7d 8d 9d 10d 12d	1 inch No. 15½ 1¼ " 14½ 1½ " 14 1½ " 14 2 " 12 2¼ " 12½ 2½ " 11½ 2 " 11½ 3 " 11½ 3 " 11½ 3 " 11½ 3 " 10½ 2 " 10½	\$1.70 1.20 1.05 .95 .70 .65 .60 .55 .50	32 32 32 32 32 32 32 32 32 32 32 32	12½ 11½ 11 11 9½ 8½ 8½ 7½	1010 635 473 406 236 210 145 132 94 87
16d 20d 30d 40d	3½ " " 10 4 " " 9 4½ " " 9 5 " " 8	.40 .30 .30 .30	32 32 32 32 32	7 6 6 5 5	71 52 46 35

34 44 54

O THINK

Illustrations Actual Size

5d

34

Finishing Nails Brad Head, Diamond Point

Am. Steel & Wire Co.'s Steel Wire Gauge

Size	Length and Gauge	Extra Over Base Price	Dia. Head Ga.	Approx. No. to Lb.
2d 3d 4d 5d 6d 7d 8d 9d 10d 12d 12d 20d	1 inch No. 16½ 1¼ a 15½ 1½ a 15 1¾ a a 15 2¼ a 13 2½ a 13 2½ a 13 2½ a 13 2½ a 12½ 3¼ a 11½ 3¼ a 11½ 3¼ a 11½ 3¼ a 11½ 3¼ a 110	\$2.25 1.60 1.45 1.35 .80 .75 .65 .60 .55 .50 .45	13½ 12½ 12½ 12 10 10 9⅓ 9⅓ 8⅓ 8⅓ 7	1351 807 584 500 309 238 189 172 121 113 90 62

Kuphed Nails furnished only

Flooring Brads

See Page 27 for Special Flooring Nails

Deep Countersunk Head Diamond Point American Steel & Wire Co.'s Steel Wire Gauge

00	ring l			
	9d	8d	7d	6d
1				Number of the second
z.	Dian	n. App	roxi-	

Size	Len	gth an	d Ga	uge	Extra Over Base . Price	Deg. C's'k	Diam. Head. Gauge	Approxi- mate No.toLb.
6d 7d	2 2 1/4	inch	No.	11	\$0.65 .60	32 32	6	157 139
7d 8d 9d	21/2	44	4	10 10	.55	32 32 32 32 32 32	6 5 5	99 90
10d 12d	31/4	4	4	9	.45	32	3 2	69 54
16d	31/2	4	4	8	.35	32	2	. 43
20d	4		-	6	. 30	32	1	31

Barbed nails furnished in all sizes and styles at 25c per 100 lbs. over smooth.

Common Brads

7d 6d 5d

Brad Head

Diamond Point

Illustrations Actual Size

American Steel & Wire Co.'s Steel Wire Gauge

1	H	Steel	Wire Gau	ige	
	Size	Length of Gauge	Extra Over Base Price	Diam. Head. Gauge	Approx. No.toLb.
)	'2d 3d 4d 5d 6d 7d 8d 10d 12d 16d 20d 40d 50d 60d	1 inch No. 15 114	\$1.70 1.20 .85 .75 .65 .60 .45 .40 .35 .30 .30	12 11 91/2 91/2 81/2 77 76 66 55 32 1	876 568 316 271 181 161 106 96 69 64 49 31 24 18 16

when specified. See page 35.

Clout Nails

American Steel & Wire Co.'s Steel Wire Gauge Flat Head Duck Bill Point

Length	Gauge	Extra Base	Approx. No. to	
	No.	Annealed	Bright	Lb.
3/4 in.	15	\$2.65	\$2.40	1160
$\frac{7}{8}$ in.	14	2.00	1.75	808
1 in.	14	1.80	1.55	705
11/8 in.	14	1.75	1.50	628
11/4 in.	13	1.60	1.35	423
13% in.	13	1.50	1.25	390
1½ in.	13	1.45	1.20	350



Illustrations Actual Size

Slightly Countersunk Flat Head, Diamond Point

Illustrations Actual Size

Size	Ler	igth a	nd G	auge	Extra Over Base Price Bright	Deg. of Coun- tersunk	Diam. Head	Approx. No. to Lb. Bright
2d	1	inch	No.	12	\$1.20	145	5/16	411
3d	11/4	"	"	101/2	1.00	145	3/8	225
4 d	11/2	"	"	101/2	.85	145	2/	187
5d	13/4	"	"	10	.75	145	9/8 13 32	142
6d	2	"	u	9	.65	145	1/16	103

Siding Nails

Flat Head-Diamond Point

American Steel & Wire Co.'s Steel Wire Gauge

Size	Length an	d Gauge	Extra Over Base Price	Approx. No. to Lb.
5d 6d 7d 8d	1 3/4 inch 2 " 2 1/4 "	No. 14 " 12½ " 12½	\$0.90 .65 .60	406 236 210
9d 10d	2½ " 2¾ "	" 11½ " 11½ " 10½	.55	145 132

10d

Hook Head Metal Lath Nail

No. 12

This is a 1½ x 12 bright, Actual Size smooth nail with a long thin, flat head especially suited for applying metal lath. Can also be furnished blued, galvanized, and in other lengths.

Blued \$3.30

Galvanized

\$4.95

Approximate count per pound, blued or bright, 278; galvanized, 213. Extra, over base per 100 lbs. Bright

11/8 Illustration Actual Size

\$2.95 Fence Nails

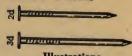
Am. Steel & Wire Co.'s Steel Wire Gauge

Size	Lengt	h an	d Gau	ige	Extra Over Base Price	Diam. Head	Approx. No. to Lb.
5d 6d 7d 8d 9d 10d 12d 16d 20d	13/4 in 2 21/4 21/2 23/4 3 31/4 31/2	a a a a a a	No.	10 10 9 9 8 7 6 5	\$0.60 .55 .45 .45 .40 .40 .35 .30	9 37 32 5 16 5 16 132 32 38 132 7	142 124 92 82 62 50 40 30

Illustration Actual Size

Sterilized Blued Lath Nails





Illustrations Actual Size

Flat Head, Diamond Point

Size	Length and Gauge	Extra over Base Price	Approx. No. to Lb.
2d	1 inch No. 16 ½ 1 " " 17 1 ¼ " " 15 1 ½ " " 16	\$2.55	1351
2d Light		2.75	1560
3d		1.95	778
3d Light		2.50	1015

Lathers carry the nails in the mouth while at work and it is therefore, from the standpoint of health sanitation, necessary to have the nails free from all injurious substances. Polished or bright nails cannot be made or kept entirely clean owing to process of manufacture as well as the effect of atmospheric conditions. Packed in paper-lined kegs.

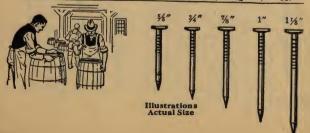
Fine Nails Bright

Size	Length and Gauge	Extra over Base Price	Approx. No. to Lb.
2d	1 inch No. 16 ½ 1 " " 17 1 ½ " " 15 1 ½ " " 16	\$2.20	1351
2d Ex. Fine		2.40	1560
3d		1.60	778
3d Ex. Fine		2.15	1015

Barrel Nails

Flat Head-Diamond Point

Size	Length and Gauge	Over Base Price	Dia. Head	Approx. No. to Lb.
1 inch 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a	% inch No. 15 1/2 a 15 1/2 a 14 1/2 a 13 13 13 13 13 13 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	\$2.45 2.10 1.45 1.25 1.20 1.15 .95	9 Ga. 9 " " 7 " " " 7 " " " 7 " " " 7 " " " 7 " " " 7 " " " 7 " " " " 7 " " " 7 " " " " 7 " " " " " 7 " " " " " " 7 " " " " " " " " " " " " " " "	1615 1346 906 775 700 568 400 367



9d

Clinch Nails

Oval Head, Duck Bill Points, Bright or Annealed

Bright Clinch Nails
Will Be Furnished
Unless Otherwise Ordered



American Steel & Wire Co.'s Steel Wire Gauge

Size	Length and Gauge	EXTRA OVER BA	Head Dia	
	Length and Gauge	Bright Annea	led Rad. Hea	d No.to Lb.
2d 3d 4d 5d 6d 7d 8d 9d 10d	1 inch No. 14 114 " "13 11/2 " "12 134 " "11 21/4 " "11 21/4 " "10 23/4 " "10 23/4 " "10	\$1.55 1.35 1.10 1.00 .90 1.1 .85 1.10 .80 1.00 .75	00 14 72 35 14 14 25 16 2 G 10 16 2 G 10 16 2 G	139 99 90
12d 16d 20d	3 " " 9 314 " " 9 312 " " 8	.70 .9 .65 .9 .60 .8	00 5/16 5/16 35 3/8 11/12	69 62 49 37

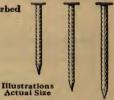
Illustration Actual Size

Berry Box Nails

34" 38" 1"

Diamond or Needle Point, Smooth or Barbed Flat Head.





Size	Length and Gauge	Extra Over Base Price for Smooth	Dia. Head	Approx. No. to Lb.
% inch	No. 16	\$2.80 2.55 2.35 2.30 2.25	9 Ga.	1500 1300 1150 1010 910
% inch 1	No. 17 % inch 1 % " 1 1/4 "	\$3.00 2.75 2.55 2.50 2.45	9 Ga.	1904 1584 1432 1300 1168

Hinge Nails

In ordering specify whether Oval or Countersunk Head, Light or Heavy, Annealed or Bright



8d Flat Countersunk Head, Chisel Point



8d Oval Head, Chisel Point

Light Hinge Nails

American Steel & Wire Co's. Steel Wire Gauge

Size	Length and Gauge	Extra over Base Price	Deg. Csk.	Dia. Head	Approx. No. to Lb.
4d	1½ inch No. 3/6	\$0.95	95	13/32	82
6d	2 inch No. 3/6	.80	95	13/52	62
8d	2½ inch No. 3/6	.75	95	12/52	50
10d	3 inch No. 14	.70	95	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	25
12d	314 inch No. 14	.65	95		23
16d	312 inch No. 14	.60	95		22
20d	4 inch No. 14	.55	95		19



10d (heavy) Flat Countersunk Head, Chisel Point



10d (heavy) Oval Head, Chisel Point Heavy Hinge Nails
Bright

Size	Length and Gauge	Extra over Pase Price	Deg. Csk.	Dia. Head	Approx. No. to Lb.
4d 6d 8d 10d 12d 16d 20d	1½ inch No. ¼ 2 inch No. ¼ 2½ inch No. ¼ 3½ inch ¾ inch 3¼ inch ¾ inch 3½ inch ¾ inch 4 inch ¾ inch	\$0.95 .80 .75 .80 .75 .70 .65	95 95 95 95 95 95 95	1/2/52/52/52/52/52/52/52/52/52/52/52/52/5	50 38 30 12 11 10 9

Annealed nails 25c per 100 pounds advance.

Smooth Foundry Nails

Large Flat Head, Diamond Point



These nails are made of Nos. 8, 9, and 10 gauge wire, with ½-inch diameter heads; also made of No. 11 gauge wire, with ¼6-inch diameter heads, in lengths ¾ inch and longer.

Extras Per 100 Lbs. over Base—in Kegs Smooth Foundry Nails

	No. 8 1/2 in. Hd.	No. 9 in. Hd.	No. 10 ½ in, Hd.	No. 11 % in. Hd.
% inch. % inch. 1 inch. 1 ½ inch. 2 inch. 2 inch. 2 inch.	1.15 1.10 1.05 1.00 1.00 1.20	\$1.45 1.35 1.25 1.20 1.15 1.10 1.10 1.25	\$1.50 1.40 1.30 1.25 1.20 1.15 1.15 1.35	\$1.55 1.45 1.35 1.30 1.25 1.20 1.45 1.40
2½ inch	1.10	1.20 1.15 1.10	1.30 1.25 1.20	1.40 1.35 1.30

See American Felt Roofing Nails on page 31. These have unusually large head for special chill work in foundries.



Flat Head Diamond Point

Illustrations Actual Size

Broom Nails

Flat Head Diamond Point Are usually ½ inch or ¾ inch long, made from No. 14 or No. 15 gauge wire, with smooth flat or flat star heads, diamond point.

Extra Over Base Price \$\frac{5}{8} \times 14 \cdots \frac{5}{2}.20 \quad \frac{3}{8} \times 14 \cdots \frac{5}{1}.85 \\
\frac{5}{8} \times 15 \cdots 2.60 \quad \frac{3}{8} \times 15 \cdots 2.25 \\
\text{Size of Head: No, 15-No, 5 gauge} \\
\text{No. 14-\$\frac{7}{2}\$ Inch

American Wood Shingle Nails

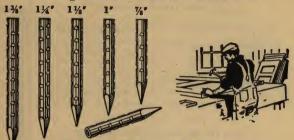
Hot Galvanized Zine Coated—5d, 13/4"; 13 ga., 1/4" Head

FIFTHETT

Especially adapted for laying new wood shingles over old shingles or roofing. Just the proper thickness to prevent splitting of shingles and right length to insure good holding power without projecting through coofing boards. Hot Zinc Coated to give long life.

Advance over base \$0.95, subject to extra for galvanizing.

Kuphed Barbed Dowel Pins



Headless, Diamond Points

American Steel & Wire Co.'s Steel Wire Gauge

Size		Extra Over Base Price						
	No. 8	No. 9	No. 10	No. 11	No. 12			
58 inch 34 " 78 " 1 " 118 "	\$1.75 1.50 1.35 1.25 1.15	\$1.90 1.65 1.50 1.40 1.30	\$2.00 1.75 1.60 1.50 1.40	\$2.20 1.90 1.75 1.65 1.50	\$2.45 2.15 2.00 1.90 1.75			
114 " 138 " 112 " 158 " 134 "	1.10 1.05 1.00 .95 .90	1.25 1.20 1.15 1.10 1.05 1.00	1.35 1.30 1.25 1.20 1.15 1.10	1.45 1.40 1.35 1.30 1.25	1.70 1.65 1.60 1.55 1.50			

Size	Approx. No. to Lb.						
Size	No. 8	No. 9	No. 10	No. 11	No. 12		
58 inch 34 " 78 " 1 " 118 " 114 " 138 " 112 " 156 "	290 250 210 190 165 150 130 120	404 336 281 235 212 187 169 154	486 390 330 277 251 221 200 181	588 480 400 349 305 267 239 221	804 616 544 484 420 352 324 308		
134 "	100 90	141 130 111	167 154 131	208 195 164	275 256 210		

Kuphed dowel pins will be furnished unless plain head is specified

American Special Plaster Board Nail

Blued

Large heads, so the nails will have ample holding power and cover sufficient surface of the board to prevent pulling through.

Long Diamond Point, permits the nails to cut through the boards readily without damage to the composition plaster.

Blued, so they can be fed from the mouth without danger to health. Bluing process makes the nails free from injurious substances or atmospheric conditions.

Packed in paper lined kegs to insure delivery of clean-sanitary product.

Great care is used to secure heads of proper size, sharp points and uniform length and



Blued, Large Flat Head, Long Diamond Point, Smooth Nail, 1/16" Head.

Net extra ever base

Sizes	Price	Count	Sizes	Price	Count
1" No. 13 116" " 13 114" " 13	\$2.35 2.20 2.10	469 448 387	1½" No. 13 1¾" " 13	\$2.00 1.90	339 291

(Note:-Advances include all features.)

American Ideal Shingle Nail

4" Large Flat Head, Blunt Diamond Point

The American Shingle Nail offers many advantages, Its Special Blunt Diamond Point cuts cleanly through the wood without splitting. Made of hard and constantly uniform steel, it provides great resistance to bending, saves time and reduces labor. A heavy covering of hot zinc gives the most efficient protection against rust and corrosion.

These nails will positively not split the shingles.

Size	Length	Gauge	Approx. Count Per Lb. Galv.	Extra Over Base Bright
3d	11/4	14	466 436	\$1.45
3½d 4d	11/2	13	313	1.35 1.20

Subject to Extra for Galvanizing.

4d 3d		Shingl Flat Head, D r Steel, Bright or Ho See F erican Steel & Wire	piamond Po ot Galvaniz Page 3)	oint ed (Zinc	
	Size	Length and Gauge	Extra Over Base Price Bright	Diam. Head	Approx. No. to Lb. Bright
	3d 3½d 4d 5d 6d	1½ inch No. 13 1¾ " " 12½ 1½ " " 12 1¾ " " 12 2 " " 12	\$1.05 .85 .80 .70	1/4 9/32 9/32 9/32 9/32 9/32	429 345 274 235 204
*3d Galv. sure to spe	COMM cify whi	ON NAILS are som ch style is wanted.		for shin	

American Zinc Coated Asbestos Barbed Shingle Nails

Large Flat Head, Needle Point

A rust-resisting permanence in asbestos shingle roofing

HEAD—13½ in. diameter Extra Large Flat Head—uniform, well centered, smooth underneath head—no fins to crack asbestos shingles or make nail hole larger.

POINT-Easy driving with sharp Needle Points.

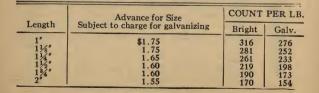
BARBED—Shank of Nail barbed to insure good grip and holding power.

LENGTHS—1 inch to 2 inches inclusive—Short lengths for applying direct to roof decks. Longer lengths for fastening over old wooden shingles.

GAUGE-No. 111/2. Just the proper thickness.

ZINC COATING—Hot galvanized zinc coated Nails—as the name implies, galvanized by the Hot Process.

See page 2 for description of difference between galvanizing and zinc coating processes,

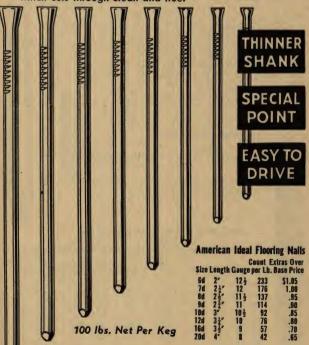


AMERICAN IDEAL FLOORING NAILS DO NOT SPLIT THE WOOD and WILL NOT BEND

Thinner shank and special point; can be driven through the hardest wood and across the grain without splitting the wood or bending the nail. It puts an end to lumber and nail waste—saving important time and money on every job.

A Product of Superior Design and Construction

The American Ideal Flooring Nail is made of special tested Wire and has a scientifically designed point which cuts through clean and true.



For cement coated nails add 25 cents per 100 lbs. to above extras.

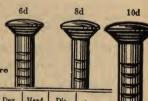
Brad Head Furnished on Request

Boat Nails Oval Countersunk Head, Chisel Point



Light Boat Nails

Bright Am. Steel & Wire Co.'s Steel Wire Gauge



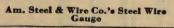
Size	Length and Gauge	over Base Price	Csk.	Rad.	Head	Approx. No. to Lb.	
4d 6d 8d 10d 12d 16d 20d	1½ inch No. 18 2 4 4 18 21½ 4 4 18 31¼ 4 4 14 31½ 4 4 14 4 4 4 14	\$0.95 .80 .75 .70 .65 .60	95 95 95 95 95 95 95	7		82 62 50 22 20 18	
			1881	1 F P STREET		1 DECIM	

Annealed nails 25c per 100 pounds advance.



Heavy Boat Nails Bright

Illustrations Actual Size



Size	Length and Gauge	Extra over Base Price		Head Rad.	Dia. Head	Approx No. to Lb:
4d 6d 8d 10d 12d 16d 20d	1½ inch No. ¼ 2 " " ¼ 21½ " " ¼ 3 " " ¾ 3 " " 3 % 31¼ " " 3 % 4 " " 3 %	\$0.95 .80 .75 .80 .75 .70	95 95 95 95 95 95 95	7/6/16/16/16/16/16/16/16/16/16/16/16/16/1	1/2 1/2 1/2 3/4 3/4 3/4 3/4	44 32 26 14 13 12 10

Actual Size

Annealed nails 25c per 100 pounds advance.

Large Head Barbed Roofing Nails Diamond Points

Copper Steel, Bright or Hot Galvanized



Extras per 100 Lbs. over Base American Steel & Wire Co.'s Steel Wire Gauge

	No.	No.	No. 91/2	No. 10	No. 10½	No. 10	No. 11	No. 12
114	½ in. Head	½ in. Head	½ in. Head	% in. Head	% in. Head	½ in. Head	% in. Head	3% in. Head
34 in. 78 in. 1 in. 1½ in. 1½ in. 1½ in. 1½ in. 2 in.	\$1.40 1.30 1.20 1.15 1.10 1.05 1.00	1.25 1.20 1.15 1.10	1.45 1.35 1.30 1.25 1.20 1.15	1.45 1.35 1.30 1.25 1.20 1.15	1.55 1.45 1.40 1.35 1.30 1.25	1.55 1.45 1.40 1.35 1.30 1.25	1.60 1.50 1.45 1.40 1.35 1.30	1.70 1.60 1.55 1.50 1.45 1.40

Subject to charge for galvanizing.

) Approximate Number of Nails to the Pound— Galvanized

On account of variation in gauge of wire, counts are not guaranteed to be absolutely exact, but are approximately correct.

Length		½-inch Head		7/6-inch Head			3/8 in. Head	
	8 ga.	9 ga.	91/2	10 ga.	10 ga.	10 1/2 ga.	11 ga.	12 ga.
3¼ in. 7% in. 1 in. 1½ in. 1½ in. 1½ in. 1½ in. 1¾ in. 2 in.	177 160 140 132 125 102 94 88 80	214 184 165 157 148 125 115 107 96	235 200 190 177 165 138 130 120	250 215 190 180 170 150 134 130	255 225 210 185 170 155 143 135	298 264 228 222 198 167 157 147	315 280 255 232 210 180 165 150	464 396 361 315 286 249 224 210 195

The Ideal Roofing Nail Large Flat Checker Head, Long Diamond Point

For all kinds of Smooth, Grit-Surfaced and Asbestos Roll Roofings and Asphalt and Asbestos Shingles

Just what is needed-fills a long felt want.



Through many years of experience in the manufacture and sale of Roofing Nails and a close study of trade requirements, the Ideal Roofing Nail has proved its superiority.

This Nail is just what the name implies "Ideal"—large checkered heads, absolutely uniform and well centered. The shank is just right, not too thick to split the wood nor too thin to break and rust out quickly. The

long, sharp point enables the workmen to stick the Nails in place like a tack doing the work better and easier in half the time.

Furnished in bright or hot galvanized (Zinc-Coated), in lengths and gauges as shown below. Be sure to specify length, gauge and if bright or galvanized. Samples furnished upon request.

Bright Ideal Roofing Nails Extras per 100 Lbs. Over Base V Illustrations Actual Size

Illustrations

	No. 10 % Hd.	No.10½ %"Hd.			No. 12	
3/4 inch	\$2.30				\$2.90	\$3.05
1 " "	2.00	2.10	2.30 2.10	2.45	2.60	2.75
11/8 "	1.75	1.85	2.05	2.20	2.35	2.50
11/2 "	1.70	1.80	2.00	2.15	2.30	2.45 2.40
134 "	1.60	1.70	1.90	2.05	2.20	2.35
2 "	1.60	1.70	1.90	2.05	2.20	2.35

Approximate Number of Nails per Pound

	pproxima	te Mullip	er of Ivalis	per I ou	na
	Bright			Galvanized	
10½	11	12	10½	11	Gauge
Gauge	Gauge	Gauge	Gauge	Gauge	
226	255	360	203	234	339
215	235	328	189	210	286
196	215	300	177	195	261
180	197	275	164	180	243
165	180	250	152	168	225
145	160	220	130	135	210
128	141	189	115	128	182
112	125	176	105	118	164

American Felt Roofing Nails

Extra
Large
Heavy
Reinforced
Flat
Head
Needle

11/2"

A large head nail especially designed for use in laying prepared roofing material. This nail, having an extra



large head and thin shank, meets admirably the requirements for placing all prepared roofing. The head is reinforced on the shank so that it will not easily pull or break off.

These extra large head nails are unusually good for special chill work in foundries.

Length	Gauge	COUNT PE	ER POUND	Diameter
		Bright	Galvanized	of Head
3/4 inch	No. 11	184	164	5/8 inch
7/8 "	" 11	175	157	5/8 "
1 "	" 11	162	145	5/8 "
11/8 "	" 11	149	133	5/8 "
11/4 "	" 11	136	122	5/8 "
11/2 "	" 11	110	100	5/8 "
13/4 "	11	90	80	5/8 "
74 "	" 12	210	188	5/8 "
1/8 "	12	195	175	5/8 "
11/ "	. 12	180	162	5/8 "
11/8 "	" 12	170	154	5/8 "
11/4 "	12	161	147	5/8 "
13/ "	" 12	141	133	5/8 "
1%4 "	" 12	120	110	5/8 "

Standard Barbed Roofing Nails

Flat Head, Diamond Point Am. Steel & Wire Co.'s Steel Wire Gaug

		******	Steel	CC W	He C	0. 8 ,	Steel wire G	auge
Size	Si	ze	Leng	gth an	d Gai	uge	Extra Over Base Price	Approx. No. to Lb.
Illustration Actual	3/4 7/8 1 11/8 11/4 13/8 11/2 13/4 2	inch « « « « « « «	3/4 7/8 1 11/8 11/4 13/8 11/2 13/4 2	inch « « « « «	No. " " " " " " " " " "	13 12 12 12 12 11 11 10 10	\$1.55 1.30 1.20 1.10 .95 .90 .80 .75	714 469 411 365 251 230 176 151 103

American Leak-Proof Roofing Nails

Zinc Coated





	Extra for Size Subject to Charge for Galvanizing	Approximate Count
$1\frac{1}{2}$ x 9	\$2.55	98 per lb.
$1\frac{3}{4}$ x 9	2.30	87 per 1b.
2 x 9	2.10	79 per lb.
$1\frac{1}{2}$ x10	2.80	115 per lb.
$1\frac{3}{4}$ x 10	2.55	106 per lb.
2 x10	2.35	93 per lb.

A great time and money saver over the old method of nail and lead washer combined.

The extra heavy coating of zinc over the entire surface of the nail—shank as well as head—insures the fullest protection against rust so they will last the life of the best grades of corrugated roofing.

The self-sealing principle involved in the design and construction of this nail is the most important feature. The curved spring head does the work, making a perfect seal.

The nub of the head of the nail aids in driving so as to prevent distortion of the head.

American Anchoroof Nails



American Anchoroof Nails lock asbestos shingles and prevent the ends from being cracked or broken in high winds and storms.

Made in one-piece solid copper style

Available in the popular sizes.

Prices on Application

Oil Quench Hardened Concrete Nails



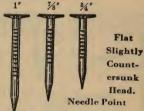
The increase in concrete construction of buildings, etc., has demanded a new type of nail for fastening Metal Corner Beading, Door Bucks, and Carpet Strips to cement.

All lengths and gauges can be supplied. Packed in kegs of 100 lbs. each.

Shade Nails

Made in 34, 78 and 1-inch lengths, of No. 13 gauge wire, with slightly countersunk 14-inch diameter flat head, and needle point.

PRICES on these nails are the same as for miscellaneous nails, plus extras for special features, such as for head and point, as shown in Miscellaneous Nail list.



Shade Roller Pins

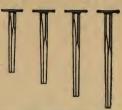
These pins are made in different sizes, according to specification.



Illustrations Actual Size

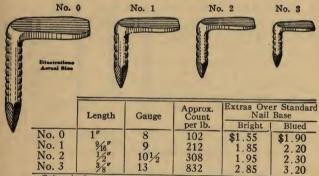
PEERLESS HOOP NAILS

Especially designed for attaching wooden hoops to barrels. The special point provides a clinch which is very effective when driven against a piece of metal.



Length	Gauge	Approximate Count per Lb.
5/8 inch 3/4 " 7/8 "	14 14 14 14	1464 1264 1080 880

Hoop Fasteners



Galvanized, same extra as applies to Standard Nails. Packed 100 lbs. to the keg.

Steel Escutcheon Pins

Oval Head, Needle Point

Made in various lengths and gauges, with oval head and needle point.

Prices on these nails are the same as for miscellaneous nails, plus extras for special features, such as for head and point as shown in Miscellaneous Nail list.



Actual Size

Kuphed Nails



MADE IN ALL SIZES

Mrs. McGregor Nail Boxes



Containing an assortment of small nails. Very handy for use about the house. Put up in illuminated tin display boxes, $2\frac{1}{4} \times 3\frac{1}{2}$ inches.

Weight of nails and box 7 ounces. Packed one gross in a case.



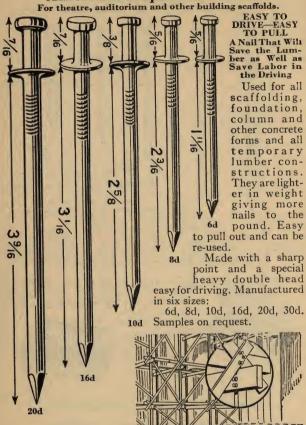
American Handy Nail Boxes

Attractively colored tin with an assortment of nails—small and medium sizes for general use around the house.

Weight of nails and box 10 ounces. Packed one gross in a case. Price on application.



American Duplex Head Nails



Size	Length Overall	Gauge	Distance Between Heads	Measure- ment Under Lower Head	imate Count per Pound	Extras per 100 bs. Over Base
6d 8d	2" 21/2"	$11\frac{1}{2}$ $10\frac{1}{4}$	5/16 5/16	1 ¹¹ / ₁₆ " 2 ³ / ₁₆ "	150 88	\$3.40
10d	3	9	3/8	25/8"	62	3.00
16d	31/2"	8	7/16	31/16"	44	2.80
20d 30d	41/2"	5	1/2	39/16"	29 20	2.60 2.40

American Dual Head Anchor Nails

Pearson Coated



For anchoring automobiles, machinery, etc., to freight car floors in shipping.

These nails are driven through the lower flanges of band steel and through wooden cleats into the floor of the car. The object of the Dual Head is to facilitate withdrawal of the Nails.

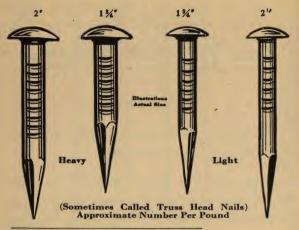
Made in lengths 2, $2\frac{1}{4}$, and $2\frac{1}{2}$ inches, measured under the lower head—this means $2\frac{1}{2}$, $2\frac{3}{4}$ and 3 inches over-all.

Principal demand is for 21/4 inch No. 6 gauge.

Packed in kegs of 100 lbs. each.

Length	Advances Over Base No. 6	Approximate Count per Pound No. 6	Advances Over Base No. 7	Approximate Count per Pound No. 7
2"	\$2.75	43	\$2.85	49
2½"	2.75	39	2.85	44
2½"	2.75	34	2.85	39

Large Oval Head Long Diamond Point Hinge Nails



Length	%/6-inch	1/4-inch	
1½ inch	81	47	
13/4 "	68	41	
* 2 "	61	33	
21/4 "	54	31	
2½ "	48	28	
23/4 "	45	26	
3 "	. 41	24	

inch and 1/2 inch, 1/2 inch, 2 inch, 2/2 inch, 2/2 inch and 3 inch.

Packed in Kegs, and 50, 25, 10 and 5 Pound Boxes.

Annealed Wagon Nails

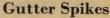
Made with different styles of heads, such as Oval, Cone, Countersunk or Steeple heads, or a combination of these

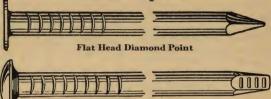
styles if desired. Well barbed and thoroughly annealed, with heads perfectly uniform, these wagon nails are especially adapted for blacksmiths' use.

PRICES on these nails are the same as for miscellaneous nails, plus extras for special features, such as for heads, barbing and annealing, as shown in Miscellaneous Nail List. When ordering specify style, point, finish and all features.



Diamond Point





Countersunk Oval Head Chisel Point

Made in lengths of 5½ inches to 10½ inches inclusive. with either flat head, diamond point, or oval head, chisel point.

Made in various gauges from \(^{3}_{16}\)-inch to No. 8, inclusive. Bright or Galvanized.

Basket Nails



Flat Head

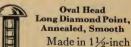
Diamond Point

Are usually made 5%-inch or 3/4-inch in length, of No. 18 gauge smooth wire. with needle point and large flat head.

PRICES on these nails are the same as for miscellaneous nails, plus extras for special features. such as for head and point. shown in Miscellaneous Nail list.

Saddlery Nails (Hame Rivet)





length of No. 7 and No. 7½ gauge wires. These nails are used as rivets for fastening trimming to a hame. After

they are driven the point is cut off and the end is riveted.

iamond Point

American Beer Case Nails

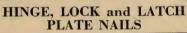
EER case nails properly designed for the work intended for them. Made of special steel—they drive straight and true-resist bending-hold tenaciously.

Various lengths and gauges used according to thickness and grade of lumber.

Standard sizes shown below:

STRAP NAILS

Length	Gauge	Approx. Count Per Lb.
11/4	13	410
11/2	$12\frac{1}{2}$	300
13/4	12	225
2	111/2	175



Length	Gauge	Approx. Count Per Lb.
5/8	14	1030
3/4	14	860
5/8	13	800
3/4	13	680
7/8	13	585
$1\frac{1}{8}$	13	450
11/4	13	410
15/16	13	390

CLEAT NAILS

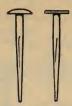
Length	Gauge	Approx. Count Per Lb.
11/8	$14\frac{1}{2}$	686
1	14	669
11/8	13	450
13/16	13	430
11/4	13	410
13/8	13	380
15/16	13	390
15%	121/2	268
17%	12	216

All nails can be furnished in Bright, Galvanized, Tinned or Pearson (Cement)

Coated, to match finish of hardware, smooth or barbed. STRAP NAILS-Oval Head, Short Diamond Point. OTHER STYLES-Oval Head, Long Duck Bill Point.

Peerless Beer Case Nails





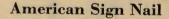
For Hinges, Locks and Latch Plates

Made of special steel—Peerless Beer Case Nails will not break when clinched; they will drive straight and resist bending. The long tapering body or shank of the nail eliminates splitting of the wood and makes a perfect clinch.

These nails can be furnished in bright, blued, galvanized, tinned or (Pearson) cement coated, and with oval or flat heads.

Estimated Count per Pound on Peerless Beer Case Nails

Length	Gauge	No. 12	No. 12½	No. 13	No. 14	No. 15
5/8"		688 640	840 768	880 816	1212 1118	1544 1420
1"8"		592 544	696 624	752 688	1024 930	1296 1172
1½" 1¼"		480 416	552 480	608 544	828 734	1048





For hanging paper or metal signs

OVAL HEAD—NEEDLE POINT

Length	Gauge	Approx. Count Per Lh.	
15	8	11	

Other lengths and gauges furnished.



AM

Flat Head



Diamond Head Button or Oval Head Chisel Point

Boat, railroad and barge spikes are driven mostly in hard timbers and it stands to reason that a spike with a clean cut, sharp, chisel point will facilitate the

Our process of manufacture insures a product that has all the essential features necessary in a spike that will drive easily and hold well after driven.

work.

The proper stock is used to make spikes that will drive straight and true and our product runs uniform as to gauges. lengths and Heads will not fly off.

For a first-class job in track, bridge Of trestle work use American Steel & Wire Company Railroad and Boat Spikes.

(See Boat Spikes, Page 28. Railroad Spikes, Page 42.)

Sizes inch square, 3 to 3 ½ inches long
4 to 8 inches long
5 inches long
5 inches long
6 to 8 inches long
7 inches long
7 to 8 inches long
7 to 8 inches long
7 to 8 inches long
7 to 12 inches long
8 to 12 inches long
8 to 12 inches long
8 to 14 inches long
9 to 8 to 14 inches long
9 to 18 to 14 inches long

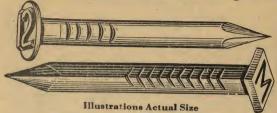
In kegs of 200 pounds.

Chisel Point

Illustrations **Actual Size**

Button or Oval Head considered standard and will be furnished unless orders specifically call for Diamond Head or Flat Head.

Tie and Pole Dating or Marking Nails



Raised or Depressed Figures Extra Per 100 Lbs. Over Standard Nail Base for Standard Marking*

1½"	3 gauge % inch	6 gauge
1.25	1.25	1.25
2½"	1.10 1.00 1.00	1.10

Galvanizing same extra as applies to Standard Nails.
Square Shank Nails, ¼-inch and ¾'s square considered standard—
advance 50 cents per 100 lbs. over round.
Copper Bearing Nails 15 cents per 100 lbs. extra.
*For other than standard marking and etc. Price upon Application.

Shimming Spikes

These spikes are used for fastening rails on trestle work where the spike is to be driven through a stringer (shim) into the tie beneath.

The orders for these spikes generally specify 7 in. or 8 in. long x % in. square. Price on Application.

Size, Measured Under Head	Approximate Number Per Keg
7 x ⁹ / ₁₆	278 260

Reversed points, ¼c. per pound extra. Other than regular sizes shown above can be furnished at a slight extra charge.

Packed in strong, well-made kegs of 200 lbs. each.

These spikes are driven mostly in hard timbers and it stands to reason that a spike with a clean-cut, sharp chisel point will facilitate the work.

Our process of manufacture insures a product that has all the essential features necessary in a spike that will drive easily and hold well after driven.

The proper stock is used to make spikes that will drive straight and true, and our product runs uniform as to lengths and gauges. Heads will not fly off.

For a first-class job in track, bridge or trestle work use American

Steel & Wire Company Railroad and Shimming Spikes.

Railroad Spikes

Extras over Base Price Per 100 Per 100 Lbs. Lbs. \$2.50 3 to 41/2. \$0.90 $\frac{2.25}{2.00}$.75 to 21/2 to 4 1/2 .65 1.85 .65 to 31/2 .50 to 5 25 41/2 and larger ... Base

Reversed points, 1/4c. per pound extra. Other than regular sizes shown above can be furnished at a

slight extra charge.

Packed in kegs of 200 pounds.

*%-inch railroad spikes are not made by us, but we carry in stock sizes 5 and $5\% \times \%$ for convenience of customers in making shipment of mixed carloads of our railroad and boat spikes.

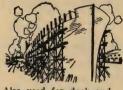
	te Number a Keg of 2	of Railroad 00 Pounds
Size Meas. Under Head	Aver. No. per Keg	Ties 2 Feet Between Centers, 4 Spikes per Tie, Makes per Mile—
5 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	460 528 592 660 732 814 664 712 764 854 1,032 1,210 908 1,000 1,092 1,200 1,342	4,592 lbs.—22.96 kegs 4,000 "—20.00 " 3,568 "—17.84 " 3,200 "—16.00 " 2,886 "—14.43 " 2,596 "—12.98 " 3,178 "—15.89 " 2,966 "—14.83 " 2,766 "—13.83 " 2,474 "—12.37 " 2,048 "—10.24 " 1,746 "—8.73 " 2,326 "—11.63 " 2,112 "—10.56 " 1,934 "—9.67 " 1,760 "—8.80 " 1,574 "—8.80 " 1,574 "—7.87 " 1,320 "—6.60 "
214 x 3/6 2 x 5/6 3 1/2 x 5/6 3 1/2 x 5/6 2 1/2 x 5/6 2 1/2 x 5/6 3 2 1/2 x 5/6 3 2 1/2 x 5/6 2 1/2 x 5/6 2 1/2 x 1/4 2 1/2 x 1/4 1 1/2 x 1/4	1,750 1,902 1,630 1,810 2,066 2,380 2,760 2,912 4,200 4,120 4,600 4,778 6,000 7,920	1,206

NOTE-The above is given as approximate, and Company is not to be bound in any way to protect these figures.

Per 100

Square Boat Spikes

Diamond Head—Chisel Point
Extras over Base Prices



Inches Lbs. 31/2 \$1.25 inch square, 3 to inch square, 4 to 8 1.00 .95 inch square, 31/2 .70 inch square, 4 to inch square, 3 to 31/2 .80 to 12 s inch square, 4 .55 to 12 inch square, 6 .45 inch square, 6 inch square, 8 to 12 .40 to 14 .40

Length

Also used for dock and heavy plank work

OTHER SIZES: Other than regular sizes shown above, can be furnished at a slight extra charge.

Packed in 200-lb, kegs.

Approximate Number of Boat Spikes per Keg of 200 Pounds

	Length, Inches					
	4	5	6	7		
5% in. sq. 1/2 in. sq. 1/6 in. sq. 3/8 in. sq. 5/6 in. sq. 1/4 in. sq.	1,114 1,776 2,576	930 1,342 2,134	816 1,124 1,778	480 690 978 1,488		

	Length, Inches						
	8	9	10	11	12	13	14
58 in. sq. 1/2 in. sq. 7/6 in. sq. 3/8 in. sq. 5/16 in. sq. 1/4 in. sq.	324 438 622 858	190 286 532 776	176 258 378 492 706	244	144 220 434		122 192

NOTE— The above is given as approximate, and the Company is not to be bound in any way to protect these figures.

These are driven mostly in hard timbers and it stands to reason that a spike with a clean-cut sharp, chisel point will facilitate the work.

Our process of manufacture insures a product that has all the essential features necessary in a spike that will drive easily and hold well after driven.

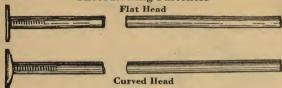
The proper stock is used to make spikes that will drive straight and true, and our product runs uniform as to lengths and gauge. Heads will not fly off

For a first-class job in bridge or trestle work use AMERICAN STEEL & WIRE COMPANY Boat Spikes.



Sheet Roofing Fasteners. Egg Case or Crate Fasteners, and Meat Tag Fasteners

Sheet Roofing Fasteners



Made in the Following Sizes
Am. Steel & Wire Co.'s Steel Wire Gauge

		Length	Diameter	Approximate Count per Pound
6	inch	1	½ inch	46
7	"		½ inch	40
8	"		½ inch	34
8	"		½ inch	31
10	"		½ inch	28
12	"		½ inch	23
14	"		½ inch	20
	ш		No. 10 gauge	30
8	ш		"Barago	27
10	"		"	24
12	"		46	20
13	ш		и	20
14	u		u	****
15	"		«	
15	16"		и	
13	/2			

Annealed or galvanized

Egg Case or Crate Fasteners

These fasteners are made in different sizes, according to specifications.

Price upon application.

Tinned Meat Tag Fasteners

Packed 1,000 in a carton, 150 cartons to the case. Also in kegs. Approximately 1,000 to the pound.

Actual Size

Solid Copper Wire Nails



The life of a roof largely depends upon its fastening. Regardless of the roofing material used, its service ends when the nails fail.

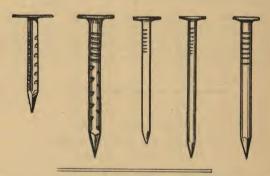
Copper Nails last indefinitely. They are moisture and corrosion proof and will not "frost-crack."

Contractors agree as to the superior

advantages of Copper Nails.

Copper Nails are used for many purposes besides roofing and we can supply any size or style required, but make regularly—

ROOFING SLATING SHINGLE COMMON



FIRE DOOR NAILS

Nails for use in applying the metal covering to wood cores of tin clad Fire Doors have been variously specified but

usually by length and gauge.

Recently the Underwriters' Laboratories have established new limits as to maximum and minimum diameters which will be acceptable and these limits permit the furnishing of various Standard Nails. Their requirements call for Nails not less than 3.09 inch nor heavier than 0.100 inch in diameter and the usual lengths called for are 1½ inch and 2 inch.

These specifications will permit the use of 3d Shingle Nails or 6d Box Nails which are of the following dimensions:

3d Shingle 1½ inch No. 13 gauge 6d Box 2 inch No. 12½ gauge Fire Door Nails are usually called for full barbed.

For Real Corrosion Resistance, use American Steel and Wire Company's U S S Stainless Steel Nails

If you have nailing problems where ordinary nails quickly corrode due to the presence of Acids and Alkalis or their compounds, try nails made from the new alloys of Nickel, Chromium and Steel known as USS Stainless Steel.

These nails are practically completely resistant to the action of strong solutions of Sait brine, any strength of cold acetic acid or vinegar and up to 10% strength if this acid is hot, all Alkaline solutions iucluding Ammonium hydroxide, fruit and vegetable juices, milk and dairy products, photographic reagents, paper and wood pulp, solutions of zinc chloride and zinc sulphate as well as bichloride of mercury solutions of usual antiseptic strength, etc.

These are only a few of a long list of economic and industrial substances which are incapable of attacking clean surfaces of U S S 18-8 Stainless Steel Nails.

These nails are therefore to be fully recommended for the construction of brine tanks, sluices, chemical vats and for the nailing of containers which are subjected to contact with any of these substances, also where food products must be protected against discoloration by nail contact. These nails have all of the physical properties of ordinary nails as regards stiffness, ease of driving and holding power.

Acid Etched Nails The Real Test of a Nail's Value is its Holding Power

AMERICAN STEEL & WIRE COMPANY'S ACID ETCHED NAILS develop this property of holding power to the highest now known degree.

Our acid etched nails are made by a special process which forms on the surface of the nail a coating which is part of the steel itself and can not be rubbed off, is neither affected by heat or cold, nor becomes tacky or sticky.

Actual tests over a considerable period have proved this nail capable of developing at least 35% greater resistance to immediate withdrawal than the best cement coated nails, which heretofore have been considered the last word in holding power.

The additional holding power makes it possible to reduce the length and gauge of the nails employed or their number. This reflects itself in a real saving where ordinary wear resistance is required and provides a large margin of additional safety when it is desirable.

Have you a problem involving "Corrosion Resistance" or "Holding Power?" If so, write us regarding these new products.



SEPTEMBER 1st, 1926

EXTRAS IN 100 LB, KEGS American Steel & Wire Company's Steel Wire Gauges

Coolers				
Size	Length and Gauge	Advance Over Base per 100 Lbs.	Approx- imate No. Nails per Lb.	
2d 3d 4d 5d 6d 7d 8d 9d 10d	1 x16 1 ½x15 ½ 1 ½x14 1 ½x13 ½ 1 ½x13 2 ½x12 ½ 2 ½x11 ½ 2 ½x11 ½ 2 ½x11 ½	\$2.40 1.90 1.55 1.35 1.15 .90 .75 .75 .65	1084 848 488 364 275 212 142 130 104	
	Sin	kers		
2d 3d 4d 5d 6d 7d 8d 9d 10d 12d 16d 20d 30d 40d 50d	1 \ \x15 \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$2.40 1.90 1.55 1.35 1.15 .90 .75 .65 .55 .45 .35 .35	1084 848 488 364 275 212 142 130 104 77 61 37 29 21	

	1-0					
	Fruit Box Nails					
4d 1 3/8x15	\$1.95	623				
	Veneer Box Nails					
4d 1 ½x14	\$1.95	435				
Apple Box Nails						
5d 1.5/8x14	\$1.50	418				
5 ½d 1 ½ x 14	\$1.40	388				

pany soften wire Gauges				
	Co	rkers		
Size	Length and Gauge	Advance Over Base per 100 Lbs.	Approx- mate No. Nails per Lb.	
2d 3d 4d 5d 6d 7d 8d 9d 10d 12d 16d 20d 40d 50d 60d	1 1/4 x 15 1 1/2 x 15 1 1/2 x 15 1 1/2 x 12 1 1/2 x 12 1 1/2 x 12 1 1/2 x 12 1 1/2 x 10 1/2 x 10 1 1/2 x 10 1/2	\$2.40 1.80 1.50 1.35 1.05 .90 .70 .60 .55 .45 .35 .35 .35	1084 678 392 364 232 212 1129 114 84 77 59 36 27 21 16	

3d 4d	1 ½x15 1 ½x14	2.15 1.80	738 435			
Box Nails						
2d 3d 4d 5d 6d 7d 8d 9d 10d	1 x16 ½ 1 ½x16 1 ½x15 ½ 1 ½x15 ½ 1 ½x13 ½ 2 ½x13 ½ 2 ½x12 ½ 2 ½x12 ½ 2 ½x12 ½ 2 ½x11 ½	\$2.55 2.05 1.90 1.70 1.30 1.20 1.00	1300 950 710 536 306 268 186 167			
Occado Res N-110						

679

Egg Case Nails

41

-	American Steel & Wire Co.'s Steel Wire Gauge						
	Heavy Barbed Car Nails				Light Bar	bed Car N	Vails
Size	Length and Gauge	Advance Over Base per 100 Lbs.	Approx- imate No. Nails per Lb.	Size	Length and Gauge	Advance Over Base per 100 Lbs.	Approximate No. Nails per Lb.
41 5d 6d 7d 8d 9d 10d 12d 16d 20d 30d 40d 50d 60d	1 ½x12 1 ½x10 2 x10 2 ½x 9 2 ½x 9 2 ½x 8 3 ¼x 7 3 ½x 7 4 ½x 6 5 x 5 ½x 4 6 x 4	\$1.20 1.00 .95 .85 .75 .70 .65 .60 .50 .50	274 138 117 85 78 62 55 44 38 29 26 20 15	41 5d 6d 7d 8d 9d 10d 12d 16d 20d 30d 40d 50d 60d	1 ½x13 1 ½x11 2 x11 2 ½x10 2 ½x10 2 ½x 9 3 ½x 8 3 ½x 8 4 x 7 5 ½x 5 6 x 5	\$1.35 1.05 1.00 .85 .75 .70 .70 .65 .50 .50	335 176 149 103 96 74 65 51 48 36 31 24

SPECIAL EXTRAS ON PEARSON COATED NAILS
Barbed Nails, 25c per 100 lbs. extra (except as provided for above,
Special Heads, 15c per 100 lbs. extra. Special Points, 15c per 100 lbs. extra

Coolers



The original Pearson Nail-same as the Sinkers in all particulars except the head. The Cooler head is flat underneath and of slightly greater diameter than that of the Sinkers. Coolers are perfectly satisfactory for hand driving in the softer woods, but are especially designed for machine driving in boxes, crates, or other shipping packages.

American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
2d	\$2.40	1084	1	16
3d	1.90	848	11/8	151/2
4d	1.55	488	13/8	14
5 d	1.35	364	15/8	131/2
6d	1.15	275	17/8	13
7d	.90	212	21/8	121/2
8d	.75	142	23/8	111/2
9d	.75	130	25/8	11½
_10d	.65	104	27/8	11





Endorsed by the carriers, and having every feature desirable for the use intended, these are undoubtedly the only perfect nails for egg cases.

American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
2d	\$2.65	1050	1	16
3d	2.15	738	11/8	15
4 d	1.80	435	11/2	14

Parquet Floor Nails

Deep Countersunk Head, Long Diamond Point



1 1/8 INCH X 15

They leave a small, clean, easily puttied hole. The holding-power of the coating overcomes any tendency of the floor to spring or squeak. Net prices quoted on application.

LENGTHS: 11/8 inch and 11/4 inch. GAUGES: Nos. 15 and 16. POINTS: Either Long Diamond or Needle. PACKINGS: In 100 lb. kegs and 25 lb. boxes.



Heavy Barbed Car Nails

7d Diamond Point

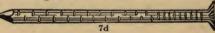
Specify whether Csk. Oval or Flat Csk. Heads

American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
4d	\$1.20	274	11/2	12
5d	1.00	138	13/4	10
6d	.95	117	2	10
7d	.85	85	21/4	9
8d	.75	78	21/2	- 9
9d	.75	62	23/4 3 31/4	8
10d	.70	55	3	8
12d	.65	44	31/4	7
16d	.60	38	31/2	7
20d	.50	29	4 .	6
30d	.50	26	41/2	6
40d	.50	20	5	5
50d	.50	15	4½ 5 5½	4
60d	.50	14	6	4



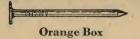
Light Barbed Car Nails



Specify whether Csk. Oval or Flat Csk. Heads
American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
4d	\$1.35	335	1½	13
5d	1.05	176	13/4	11
6d	1.00	149	2	11
7d	.85	103	21/4	10
8d	.75	96	21/2	10
9d	.75	74	23/4	9
10d	.70	-65	3	9 8. 8
12d	.70	51	31/4	8.
16d	.65	48	31/2	8
20d	.50	36	4	7
30d	.50	31	41/2	7
40d	.50	24	5	6
50d	.50	17	51/2	5 5
60d	.50	16	6	5

Special Box Nails Large Flat Head—Diamond Point





For Western orange boxes and other fruit packages. Note.—As a great majority of 4d Box Nails used on the Pacific Coast are for orange boxes, Orange Box Nails will be shipped on all orders sent to our Pacific Coast Agents for "4d Box Nails," instead of the regular 4d Box Nails shown on page 9, unless orders specifically instruct to the contrary. This does not apply to any but orders from Pacific Coast territory. When wanted elsewhere "Orange Box Nails" must be specified on the order.

American Steel & Wire Co.'s Steel Wire Gauge

Size *	Advance	Number of	Length	Gauge
	over Base	Nails Per Lb.	(Inches)	No.
4d	\$2.00	679	11/4	15

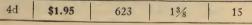
Fruit Box Large Flat Head—Diamond Point



For Southern orange boxes, pineapple crates, and other fruit packages.

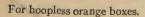
Note.—When Fruit Box Nails are wanted instead of the regular 4d Box, it should be distinctly so specified on orders.

American Steel & Wire Co.'s Steel Wire Gauge



Veneer Box Large Flat Head—Needle Point





American Steel & Wire Co.'s Steel Wire Gauge

Sizo	Advance	Number of	Length	Gauge
	over Base	Nails Per Lb.	(Inches)	No.
4d	\$1.95	435	1½	14

Apple Box Large Flat Head—Diamond Point



Box Nails



Large Flat Head—Diamond Point

6d

· Box Nails are necessarily lighter in wire than Sinkers, but where conditions permit of their use are economical because of the larger count.

American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
2d	\$2.55	1300	1	161/2
3d	2.05	950	11/8	16
4 d	1.90	710	13/8	151/2
5d	1.70	536	15/8	15
6 d	1.30	306	17/8	131/2
7d	1.20	268	21/8	131/2
8d	1.00	186	23/8	121/2
9d	1.00	167	25/8	12 3
10d	90	118	27/8	111/2

Corkers

Flat Countersunk Head, Diamond Point



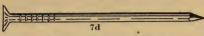
8d

American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
2d	\$2.40	1084	1	16
3d	1.80	678	11/4	15
4 d	1.50	392	11%	131/2
5d	1.35	364	15%	131/2
6d	1.05	232	17%	1216
7d	.90	212	21%	1216
8d	.70	129	23%	11
9d	70	114	25%	11
10d	.60	84	278	10
12d	.55	77	2 1/8 3 1/8	10
1ód	.45		33/8	9
20d	.35	59 36	37/8	7
30d			1 60	6
40d	.35	27	43/8	Š.
50d	.35	21	47/8	6 5 4 3
	.35	16	53/8	4
60 d	.35	12	51/8	3

Sinkers





The best all-around nail made for either hand or machine driving. For use in all styles of wooden shipping packages and for all the every day uses to which nails are put. The heads cannot break or pull off.

American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
2d	\$2.40	1084	1	16
3d	1.90	848	11/8	$15\frac{1}{2}$
4d	1.55	488	13/8	14
5d	1.35	364	15/8	$13\frac{1}{2}$
6d	1.15	275	17/8	13
7d	.90	212	21/8	$12\frac{1}{2}$
8d	.75	142	23/8	$11\frac{1}{2}$
9d	.75	130	25/8	11½
10d	.65	104	27/8	11
12d	.55	77	31/8 .	10
16d	.45	61	31/4	9
20d	.35	37	33/4	7
30 d	.35	29	41/4	6
40d	.35	21	43/4	5
50d	.35	16	51/4	4 3
60d	.35	13	53/4	3



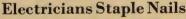
Corner Bead Staples

Usually polished style 2" length No. 8 gauge with $\frac{7}{8}$ " spread at points $\frac{3}{8}$ " at shoulder.

For applying metal beading and metal lath to building tile.

Brick Staples

Usually polished style, $2\frac{1}{2}$ length No. 6 gauge. With $\frac{3}{8}$ uniform spread.



These staple nails are easier to drive and hold insulated electrical wires securely. They may be placed near the edge of the molding without

danger of splitting the wood.

Finished in dark enamel for stained woodwork, and bright steel finish for light colored woodwork.

Made in ½ inch and 5% inch lengths, gauges No. 12, 13, 14 and 15.

Prices on Application

Ribbon Wire Staples

For stapling flat twisted ribbon wire. Cut from No. 9 wire in 1½-in.. 13/4-in. and 2-in. lengths.

Metal Lath Staples

Furnished in Standard size, 1-in., 11/8-in., 11/4-in., and 11/2-in. No. 14 gauge. Principal demand is for 1-in.

Furnished in following finishes: BLUED, POL-ISHED or GAL-VANIZED.

Note: Blued staples packed in paper lined kegs are considered Standard and will be furnished unless otherwise specified. This finish usually called for because lathers carry in mouth, and process of manufacture insures a sanitary product,

free from grease and dirt. There is a growing demand for this style staple same as for sterilized blued lath nails.

Galvanized Hoop Staples

Used for Putting on Wire Hoops Number of Galvanized Full Size 5/8-in. Wire Hoops Staples 1/2-in. to the pounds



Galvanized Poultry Netting Staples

Packed in 100-lb. kegs; 50, 25, 10 and 5-lb. wooden boxes; 5 and 10-lb. and 1-lb. papers.

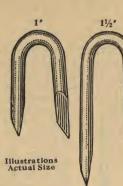
All 5 and 10-lb. paper packages are packed in wooden boxes for shipment.

	Nu			t	O	I	ŀ	16	,	D	0	ı	11	n	d		_			•			
3/4	inch,	No.	14.																			.480	,
1/8	inch,	No.	14.																			.416	,
1	inch.	No.	14.																			.352	2

The spread of all staples is measured at the shoulder and not at the points.

Fence Staples

Length	Approximate No. to Lb. No. 9
3/4 1/8 1 1/6 11/4 11/2 13/4 2 21/4 21/2	152 120 108 96 87 72 65 58 47 40



Annealed, Polished or Galvanized

Am. Steel & Wire Co.'s Steel Wire Gauge

Made of No	9 gauge wirebase price.
Made of No.	8 gauge wire or coarser 25 cts. per 100 lbs. extra.
Made of No.	20 cts per 100 lbs extra.
Made of No.	10 gauge wire 20 cts. per 100 lbs. extra.
Made of No.	11 gauge wire
Made of No	19 gauge wire
Made of No.	13 gauge wire

Staples longer than 2½ inches and up to 3 inches, 50 cts. per 100 lbs., extra. Cannot furnish staples longer than 3 inches.

Annealed staples same price as polished.
Barbed staples, all lengths and gauges, 25 cts. per 100 lbs., extra.
Oiling staples, 15 cts. per 100 lbs., extra.

Special Spread Staples Subject to Quantity Extras.

Steel Fence-Post Staples

Usually made in 1½-inch length of No. 10 gauge wire, with 3/6-inch spread.

Bright or Galvanized

These staples are placed in punched holes of steel fence posts and points are clinched on the opposite side.



American Barbed Wire

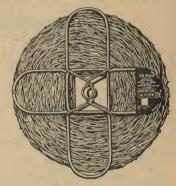
7E are the originators of barbed wire, and our mills making it today are the same ones first employed to produce it. Barbed wire is

one of the most prac-tical of inventions and its claim for extensive usage is based upon its utility, low cost and durability.

From the first we have maintained these three factors at the highest point, keeping pace with the ever-in-creasing efficiency in wire making and gal-

vanizing.

Our brands of Amer-ican Barbed Wire are known throughout the world to be unequaled for qualities uniformly to be relied upon; tensile strength by the employment of the highest quality steel for the



purpose; regularity of twist; firmness, and sharpness of barbs by the employment of experienced supervision and the most modern and efficient machinery; excellent galvanizing, uniform winding on steel reels, patented and exclusively used by us.

All brands of barbed wire made by us are plainly stenciled with the brand and registered trade marks. Customers who want good quality should insist on getting our well-known brands. Our motto is "KEEP UP THE QUALITY."

We guarantee full weight for the even 100 lb. reels and full length for the 80 Rod spools.

Ask for and insist on getting any of the old reliable brands illustrated and described on the following pages.

SPECIAL GALVANIZED BARBED WIRE. In addition to furnishing our different brands of barbed wire, either painted or galvanized, we will also furnish the same brands special galvanized, of same quality of galvanizing as our telephone and telegraph wire.







These are the long-used and established trade marks on our special brands of American Barbed Wire. Each in its own field stands for quality and excellence.

American Barbed Wire is manufactured to meet U.S. Government specifications.

American Barbed Wire—Continued Baker Perfect Two Point (Two Prongs)



A very popular brand which has stood the test for 30 years, and is a strong favorite wherever used. The flat barbs hold firmly in

place and show up sharp and clear.

There are many so-called Baker brands on the market, but only one genuine and original Baker Perfect. If you want the genuine, order BAKER PERFECT, and look for the registered trade mark on the spools.

Even weight 100 lb. reels sold by weight.

80 Rod Spools sold at a price per spool, and guaranteed to contain full 80 rods.

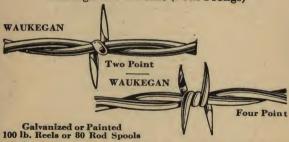
Thickset or Hog, barbs about 3 inches apart.

Regular or Cattle wire, barbs about 5 inches apart.

Main strands No. 12½ steel wire gauge.

Flat barbs wrapped once around one of the main strands.

Waukegan Two Point (Two Prongs) Waukegan Four Point (Four Prongs)



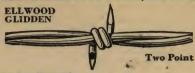
Put up on red spools under the registered trade mark "Waukegan Chief." Indian head stamped on every spool. Universally recognized as the most perfect barb wire made. If you want the best, order the Waukegan on red spools with Indian head. Even weight 100 lb. reels sold by weight.

80 Rod Spools sold at a price per spool, and guaranteed to contain full 80 rods.

Thickset or Hog Wire, 2-point, barbs about 3' apart. Thickset or Hog Wire, 4-point, barbs about 4' apart. Regular or Cattle Wire, 2-point, barbs about 5' apart. Regular or Cattle Wire, 4-point, barbs about 6' apart. Main strands of No. 12½ steel wire gauge.

Barbs are half round and each barb is wrapped once around the main strands. This makes a single wrap for the 2-point wire and a double wrap for the 4-point.

American Barbed Wire-Continued Ellwood Glidden Two Point (Two Prongs)



Galvanized or Painted 100 lb. Reels or 80 Rod Spools

This is the original "Genuine Glidden". Always sold under the Diamond "E" trade mark. Look for this trade mark on the spool when you buy this old, reliable brand. Even weight 100 lb. reels sold by weight.

80 Rop Spools sold at a price per spool, and guaranteed to contain full 80 rods.

Thickset or Hog wire, barbs about 3 inches apart.

Regular or Cattle wire, barbs about 5 inches apart.

Main strands of No. 12½ steel wire gauge.

Round barbs of No. 14 steel wire gauge wrapped twice around one of the main strands.

Ellwood Junior Two Point (Two Prongs)



Made with half-round barbs and full strength strands. A good combination for a light weight, yet substantial, barb wire fence. No sacrifice of strength for saving in weight.

Even weight 100 lb. reels sold by weight. 80 Rod Spools sold at a price per spool, and guaranteed to contain

full 80 rods. Thickset or Hog wire, barbs about 3 inches apart.

Regular or Cattle wire, barbs about 5 inches apart. Main strands of No. 12½ steel wire gauge.

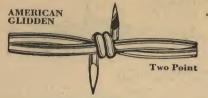
Half round barbs wrapped once around one of the main strands.

American Special Two Point (Two Prongs)



Made in Galvanized only. Put up only on 80 rod spoois. Thickset or Hog wire, barbs about 3 inches apart. Regular or Cattle wire, barbs about 5 inches apart. Main strands of No. 14 steel wire gauge Barbs are round and of No. 16 steel wire gauge wrapped twice around one of the main strands.

American Barbed Wire-Continued American Glidden Two Point (Two Prongs)



Galvanized or Painted 100 lb. Reels or 80 Rod Spools

The popular brand in all sections and for all general hog and cattle fence purposes—has many imitations, but no equal. If you want Glidden pattern insist on American Glidden.

Made in Thickset or Hog wire, barbs about 3 inches apart.

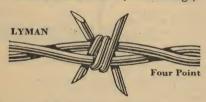
Made in Regular or Cattle wire, barbs about 5 inches apart.

Main strands of No. 12 steel wire gauge in 100 lb. reels and 12½ gauge in the 80 rod spools.

Round Barbs of No. 14 steel wire gauge wrapped twice around

one of the main strands. 80 Rop Spools sold at a price per spool, and guaranteed to contain full 80 rods.

Lyman Four Point (Four Prongs)



Galvanized or Painted 100 lb. Reels or 80 Rod Spools

One of the oldest brands of barb wire on the market—the best barb wire to use when a strong, heavy barb wire fence is required. Is an effective barrier against hogs and all kinds of stock. Easily seen by animals on account of the larger size barbs. Even weight 100 lb. reels sold by weight.

Thickset or Hog wire, barbs about 4 inches apart.

Regular or Cattle wire, barbs about 6 inches apart.

Main strands of No. 12 steel wire gauge in 100 lb. reels and 12½
gauge in the 80 rod spools.

Round barbs of No. 13 gauge in the 100 lb. reels and 14 gauge in the

80 rod spools.

Each barb consists of two pieces of wire one wrapped around one main strand and then around both main strands. The other piece interlocked and wrapped around both main strands.

80 Rod Spools sold at a price per spool and guaranteed to contain full 80 rods.

Twisted Barbless Ribbon and Coiled Spring Steel Fence Wire

Twisted Barbless Wire, Galvanized, Painted or Annealed



Regularly furnished, wound on barbed wire reels 100 pounds each. Galvanized 2 ply 12½ also furnished on 80-rod spools.

Regularly made in following sizes:

2 ply, No. 11, 12 and 121/2 Same price as American Glidden Barb Wire Per 100 Lbs.

2 ply, Nos. 8, 9 and 10 2 ply, Nos. 13 and 14

Advance over \$0.15 American Glidden Barbed Wire

Above sizes are regularly made, but other styles can be furnished,

Galvanized Flat Twisted Ribbon Wire



Made from ½ inch No. 17 gauge wire and extra galvanized. Weight approximately 9 feet to the pound. Put up in catch weight reels.

This material usually purchased for fencing blooded stock and high grade horses, also used for fencing purposes by parks and cemeteries.

Galvanized Coiled Spring Steel Fence Wire





Made in sizes 7 to 12, inclusive. Put up regularly in catch weight bundles, but can also be furnished in even 100 pound bundles without extra charge.

This coiled wire is used for making fences in various forms. We put into this wire the best stock, and it is so coiled that it will retain its springiness against all expansion and contraction due to weather conditions.

me	erican	Steel &	Wire	Co.'s	Steel	Wire	Gauge
						Ft.	per lb.
0.	7						11
0.	8						13.33
0.	9						16.7
0.	10						20
0.	11						24.61
	+ 0						

Extras on Annealed and Galvanized Fence Wire

SIZES American Steel & Wire Company's Steel Wire Gauge	Annealed Wire Extra for Size Over Base Price	Galvanized Wire Extra for Size Over Base Price
No. 0 to No. 5, Inc	Base	\$0.25
No. 6 to No. 9, Inc	Base	Base
No. 10	\$0.05	.05
No. 11	.10	.10
No. 12—No. 12½	.15	.20
No. 13	.25	.35
No. 14	.35	.55
No. 15	.55	.85
No. 16	.75	1.05
No. 17	1.00	1.40
No. 18	1.50	1.90

Even weight bundles 5c per bundle extra, except 100-lb. bundles which are considered standard and take no extra charge.

Galvanized Brace Wire

Furnished Nos. 8 and 9 gauge wire, in 5-lb. coils, packed 20 coils to the bundle of 100 lbs. Sold in even 100-lb. quantities or multiples thereof, at \$1.00 per 100 lbs. advance over price of No. 8 Galvanized Plain Fence Wire which is shown above.

Stone Wire

Made in sizes No. 16 gauge and finer. Bright, Annealed, Galvanized, Tinned and Coppered finishes.

Put up in 8-inch inside diameter coils, weighing 12 pounds each and paper wrapped.





Soft Galvanized Wire Now in Handy Coils

The same high grade wire as put up in larger coils is now available in HANDY 10 or 25 pound coils. Sizes 9 to 18, inclusive.

Easy to handle and easy to display—Packs well in stock—Saves Dealers time—No cutting from large coil necessary—Avoids tangled wire.

A handy coil for quick and convenient use.



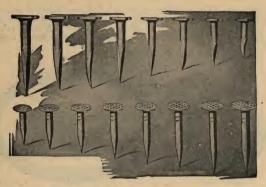
10 Lb. Coil 8' Inside Diameter



25 Lb. Coil 22' Inside Diameter



American Wire and Peerless Tacks



Made of High Grade Tack Steel Strong Heads—Sharp Pointed

Furnished in either carret, upholsterer, bill-poster or railroad styles in polished, blued, tinned, coppered or galvanized finish.

Manner of Packing

1/s-lb. papers, packed in packages of 12 papers (called a dozen) and 50 dozen in a full case lot. 1/s-lb. papers, packed in packages of 12 papers (called a dozen) and 50 dozen in a full case lot. 1/s-lb. papers are not dozened and are packed 100 lbs. (200 papers) in a full case.

1-lb. papers are packed 100 lbs. (100 papers) to a full case lot.

All packages are Packed Full Net Weight of the Size or Kind Designated.

Solid Copper Tacks

Where moisture is encountered where weather resistance is required, no better tack can be used than those made from COPPER.

We issue a completely illustrated TACK catalogue giving full details.

AMERICAN AND PEERLESS TACKS IMPROVED PACKAGES



SUPERIOR IN EVERY WAY

AND

THE SAME HIGH QUALITY OF TACK INSIDE THE PACKAGE





The American Steel & Wire Company is proud of its new American and Peerless Tack packages . . . but it is still more proud of the quality tacks they enclose.

LIST PRICES AND WEIGHTS Galvanized AMERICAN Clothes Lines

HOLLOW CABLE

_				HOI	LOW	CABL	E			
		Desc	ription	1		Ste	erican eel & eCo.s	Do	PRICE ZEN CO BL. LO	ILS
No.					No. of Wires	[GA1	EEL IRE UGE Vo.	100 Ft.	75 Ft.	50 Ft.
1	105				7		22			
2					9	:	22	P	rice o	
3			111		12	:	22		plicat	
4					11	1	20			
				-	TWIST	ED				
16					6		16			
17	C				- 6		17	'n		
18	5 500				6		18		rice o plicat	
19					6		19			
20					6	!	20			
					SOLI	D				
8			1.		1	-	8			
9					1		9		rice o olicat	
10				·	1	:	10			
			F	DUR	STRAI	ND No	. 20 B	bl. Lot	S	
75-ft 50-ft	lengt.	hs, per hs, per hs, per hs, per	doz.		Pric	e on	Appl	icatio	on	
Tv	visted	and	Hollov	w Ca List	ble Wi Price p	re Clo	thes l	Lines	on Re	els
		1500 Ft.	2000 Ft.	2500 Ft.	3000 Ft.	4000 Ft.	5000 Ft.	6000 Ft.	8000 Ft.	10,000 Ft.
No. 1 No. 2 No. 3 No. 4 No. 16 No. 17 No. 18				P	rice o			,		



AMERICAN STEEL & WIRE COMPANY'S Perfected Telephone and Telegraph Wire And Perfected Strand

A new process of tight zinc coating that is smooth, deeply laid and as naturally flexible as the wire.

and as naturally flexible as the wire.

Produced in the old reliable brands, "Extra BB," "BB," and "Steel."

Prices quoted upon request

Perfection Door Springs for Screen Doors



The best steel is used in the manufacture of these springs, ensuring permanent resiliency and freedom from breakage. A cheap yet perfect spring, for screen doors or other doors—simple, easily applied. Two screw-hooks—one in the door and one in the frame—are all that is required to attach.

Packed in paper boxes as illustrated, 1 dozen in a box, with japanned screw-hooks, 1 to 5-gross cartons.

Gate Springs



(Hook Ends)

Made from No. 12 wire; 1½ inches outside diameter, 16 inches long over all, hook on each end, japanned finish.

Packed ½ dozen in paper boxes, with staples. ½ gross in a case.

Weight per gross 152 pounds

American Hexagon Fur Farm Netting

Especially designed to enclose Foxes, Mink, Muskrats, Skunks and all other fur bearing animals.

This netting is carefully made especially for fur farm requirements and will hang evenly.

Three wire cables of high resistance steel with tension curves at frequent intervals, form the top and bottom selvages.

In combination with American Galvanized Tubular Steel Posts and Galvanized Steel Gates, this netting forms a wall of unusual and enduring strength.

The heavy coat of spelter or galvanizing applied after the fabric has been woven gives great firmness and eliminates any crevices or pockets that might hold moisture and cause rust.

MADE IN ALL SIZES

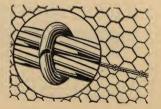
Prices quoted promptly on request.

We issue a completely illustrated catalogue giving full details on Netting, Guard Fence, Steel Posts and Steel Gates for Fur Farms.

Galvanized Wire Netting Clamp

Used for joining Fox and Fur Farm Fence and Netting.

No. 12 Gauge Wire.

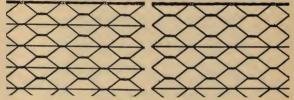


HEXTRALINE

The Improved Poultry Netting Offers Many Advantages

Two Styles

HEXTRALINE No. 2 Horizontals Spaced TWO INCHES Apart HEXTRALINE No. 4
Horizontals Spaced
FOUR INCHES Apart



The line wires add to the strength of the netting.

Hextraline is always uniform of measure.

It is easy to erect, easy to handle; easy to unroll, unrolls evenly and lays out flat—no buckling; simple and easy to stretch.

Galvanized Before Weaving

HEXTRALINE No. :								60"	
2" Mesh No. 19	Lbs.	15	22	29	36	43	55	68	82
2" Mesh No. 20	Lbs.	11	17	22	27	31	40	50	60
HEXTRALINE No.	4	12"	18"	24"	30"	36"	48"	60"	72'
	4 Lbs.	12"	18"	24" 26	30"	36"	48"	60"	72'

Galvanized After Weaving

HEXTRALINE No. 2	12"	18"	24"	30"	36"	48"	60"	72"
2" Mesh No. 19Lbs.	17	24	30	38	45	59	75	90
2" Mesh No. 20Lbs.	13	18	23	28	32	42	52	62
HEXTRALINE No. 4	12"	18"	24"	30"	36"	48"	60"	72"
2" Mesh No.! 19 Lbs.	15	22	27	34	40	52	65	78

Prices upon application.

AMERICAN HEXAGON POULTRY NETTING

Galvanized before Weaving— Galvanized after Weaving

This fence is made from specially prepared steel. Fabricated and galvanized by the latest improved process, that insures longer life and maximum weather protection. Rolls are compact to save space in storage and shipping.

Rolls out flat—and stretches even, thus saving time and trouble in erection as well as assuring a better looking fence.

Carried in stock—all widths—12 to 72 inches. Special widths up to 96 inches made to order.

HOW TO ORDER

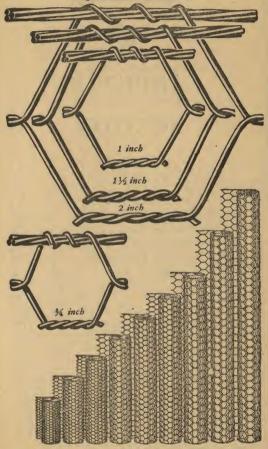
Specify size of mesh, gauge of wire, width, and whether you want Netting galvanized before weaving or galvanized after weaving.

SIZES AND MESH

INCHES WIDE		12"	18"	24"	30"	36"	42"			
Mesh	Wire	-	100		-0	-00	42	48"	60"	. 72
2" 2" 2" 2" 2"	No. 15 No. 16 No. 18 No. 19 No. 20									
2" 2" 2" 2" 11/4" 11/2" 11/2" 11/2" 1" 1" 1"	No. 15 No. 16 No. 18 No. 19									
1" 1" 1"	No. 16 No. 17 No. 18 No. 19									
3/4" 3/4" 3/4" 3/4"	No. 29 No. 18 No. 19 No. 29									
Square Feet in One Roll		150	225	300	375	450	525	600	750	900

RELATIVE SIZES OF AMERICAN POULTRY NETTING MESH

Regular Sizes Manufactured



American Hexagon Poultry Netting Galvanized Before Weaving and Galvanized After Weaving Regular Sizes Manufactured —12'-18'-24'-30'-36'-42'-48'-60'-72'

MANUAL

of

CARPENTRY SECTION

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INDEX

Manual of Carpentry I to XXXVIII
Actuary's Estimate TablesXX
Area of Openings
Area of Openings. XVII
Approx. No. Wire Nails per lb VVVIII
Capacity of Cribs and Bins
Depreciation XVI
Estimating Millwork XXX-XXXVIII
How to Figure I 1
How to Figure LumberVIII
Tow to Make Blue Prints
Nans—Rind and Quantities Required I II III
Penny System
Rafters and Gables XV
Roof Pitches
Roof Pitches XIX
Sale Loads for L. L. Yellow Pine IV WILL
Square reet in Ceiling and Walls VVIII
Strength of Joists
Tapering Lumber XXII
XXII

Manual of Carpentry Wire Nails-Kinds and Quantities Required

	M.	48"	20	13	10	∞	10	33	22	17	20	17	61	42	34	55	46		
	feet B.	36"	23	16	12	10	12	09	27	21	25	21	20	52	38	70	58	:	
	Pounds per 1000 feet B. M on center as follows:	20"	37	25	20	16	20	. 69	43	53	40	33	122	82	61	110	92	:	
	Pounds on cer	16"	48	32	27	20	24	80	54	40	20	41	150	97	16	137	115	1	48
4		12,	09	40	31	25	31	105	70	53	09	52	197	131	100	178	145	:	
	Trade Names		8d common	8d common	8d common	8d common 8	8d common	20d common	20d common	20d common	20d common	20d common		60d common boo	60d common	60d common	60d common	8d finish	8d common
	Sizes and Kinds of Material			olate 101 101	Iq d o	se su	x 12 N	4. 98. 16.	× 6-de he	× × ×	× 10 ar sichily	x 12 us on us out	A ×	ist pa	× × × × × × × × × × × × × × × × × × ×	101 of of	3×12) I	Base, per 100 ft. lin.	Byrket lath
	sgnilis/	I	2	2	7	2	n	2	2	7	3	3	2	2	7	3	n	2	2
	Approx.	N	106	106	106	106	106	31	31	31	31	31	11	11	11	11	11	189	106
	i. Steel & ire Co.'s eel Wire Gauge	M	1014	1014	101/4	1014	1014	9	9	9	9	9	2	2	2	2	2	121/2	101/4
1	ength,	ıi	21/2	23/2	21/2	21/2	21/2	4	4	4	4	4	9	9	9	9	9	21/2	21/2

Wire Nails-Kind and Quantities Required-Cont.

ca-cont.	Pounds per 1000 feet B. M. on center as follows:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- Cumunica medanien	Trade Names	8d finish. 6d finish. 10d finish. 10d finish. 10d finish. 8d floor brads. 8d floor brads. 10d common. 10d common. 10d common. 8d casing. 8d casing. 8d casing. 6d finish. 6d finish. 6d finish. 6d and 8d casing.
	Sizes and Kinds of Material	Ceiling, 34 x 4 Ceiling, 15 and 16 Finish, 17 Finish, 17 Flooring, 1 x 3 Flooring, 1 x 4 Flooring, 1 x 6 Framing, 2x4 to 2x16 Framing, 2x4 to 2x16 Framing, 3x4 to 3x14 Siding, drop, 1 x 4 Siding, drop, 1 x 8 Siding, bevel, 15 x 8
	egnilisN	4488444
	Approx.	189 309 121 99 99 99 99 311 445 1145 1445 1445 1445 1445 309 309
	Am. Steel & Wire Co.'s Steel Wire Steel Wire	1333311112 9 8 6 10 10 173 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Length, senoni ni	Ta ta tatata ta tatata

Wire Nails-Kinds and Quantities Required-Cont.

About 10 pounds per 1000 square	6 pounds per 1000 pieces.	% of a pound to the square.	1½ pounds to the square.	American felt roofing 11% pounds to the square.	American felt roofing 3 pounds to the square.	4½ pounds; about 2 nails to each	7½ pounds; about 2 nails to each 4 inches.		5 pounds, per 1,000 square feet.
3d brads	3d fine	Barbed roofing	Barbed roofing	American felt roofing	American felt roofing	3d shingle	4d shingle	4 Shingles American felt roofing A Shingles Barbed roofing	o.c. entire edge flat head 3" Wall board, inter- 2d casing or floor o.c. mediate nailings. brad
114 14 568 12" Flooring, 38 x 2 3d brads.	778 16" Lath, 48"	o.c. 2" Ready roofing	1" Ready roofing		 	o.c. (% neads) Shingles†	Shingles	ShinglesShingles	o.c. entire edge flat h 3" Wall board, inter- 2d cas o.c. mediate nailings brad
12.	16"	0.c.	1,"	2,0.0	1,			44%	0.c. 3# 0.c.
568	778	469	469	180	180	429	274	180 469	
14	15	12	112	12	12	,13	12	12	151/2
11/4	11/8 15	78 .12	78 12	7,8 12	1/8 12	114 13	11/2 12	100/00	

TWood shingles vary in width; asphalt are usually 8 inches wide. Regardless of width 1000 shingles are the equivalent of 1000 pieces 4 inches wide. The "Penny" System

The "penny" system of designating nails originated in England. Two explanations are offered as to how this curious designation came about. One is that the six penny, four penny, tenpenny, etc., nails derived their names from the fact that one hundred cost sixpence, fourpence, etc. The other explanation, which is more probable, is that one thousand tenpenny nails, for instance, weighed ten pounds. The ancient as well as modern abbreviation for penny is "d," being first letter of the Roman coin denarius; the same abbreviation in early history was used for the English pound in weight. At any rate, the penny has persisted as a term in the nail industry.

Strength of Joists

The table herewith has been carefully calculated by this formula:

 $Safe load = \frac{2 \times \text{thickness} \times \text{square of width} \times A}{Span \text{ in feet}}$

in which the value of A is 1-18 of the fiber strain or modulus of rupture for safe loads. It is the formula used in modern construction by P. E. Kidder and other noted civil engineers.

Its Use

What size joists are required in a hay bay 20 feet wide, 40 feet long and 12 feet high, the joists being supported at the ends only? The cubic contents $= 20 \times 40 \times 12$ or 9,600 cubic feet. At 512 cubic feet to the ton this bay will hold 1834 tons or 37,500 pounds. Supposing the joists to be set 24" on centers there would be 21 joists and each would have to carry 1-21 of 37,500 pounds or 1785 5-7 pounds. Referring to the table the safe load for 1×1020 is 1000 pounds. This multiplied by 134" the exact thickness of the joists = 1750 pounds, whereas provision must be made for 1785 pounds; therefore 3×10 's must be used or the 2 x 10's must be set closer than 2 feet on centers.

Economy

It also indicates the economical sizes to give best results. For example, the safe load for a 4×4 16 is 800 pounds (4×200) while the safe load for a 2×6 is 900 pounds (2×450) , showing that while the 2×6 contains much less material, yet when used on edge it is $\frac{1}{8}$ stronger than the 4×4 .

Safe Quiescent Loads Uniformly Distributed for Long Leaf Yellow Pine

Set on edge and supported at both ends. Multiply weight given by exact thickness of joists used.

Pine	
Yellow	
س	1
Long Lear	
for	
aly Distributed	
Uniformly	
Loads L	
Juiescent 1	
Safe 0	

-	1x16	8533	6400	5120	9967	4700	3656	3412	3200	3012	2844	2560	2327	2226	2422	2133	2048	1969	1896	1828	1706	1100	1600	1506	1422	1347	1280	
	1x15	7500	5633	4500	2740	2130	3214	3000	2816	2653	2500	2250	2045	1056	1000	18/2	1800	1730	1666	1607	1500	noci	1406	1323	1250	1184	1125	
SIZE	1x14	6533	4900	2020	0700	2200	2800	2613	2450	2306	2177	1060	1782	1704	1104	1033	1568	1507	1451	1400	1206	1300	1225	1153	1088	1031	086	
0	1x12	4800	3600	2000	0007	7400	2056	1920	1800	1694	1600	1440	1300	1050	7571	1700	1152	1107	1066	1028	. 0701	200	006	847	800	757	720	
	1x10	2222	2500	2000	2000	1000	1428	1333	1250	1176	1111	1000	000	960	808	833	800	692	740	714	411	100	625	588	555	526	200	
		an in i	00	0 0	27	12	14	15	16	17	18	200	200	770	67	24	25	26	27	36	0 0	30	32	34	36	38	40	
	1x9	J. 0070	2002	5077	10701	1350	1157	1080	1012	953	000	040	810	130	40/	675	648	623	009	074	010	240	506	476	450	426	405	
dads on	1x8	OUNDS	2133	1000	1280	1066	914	873	600	753	711	111	040	285	556	533	512	402	474	+	104	426	400	376	255	227	320	
Size	1x7	LOAD P	1633	1225	086	816	700	653	613	576	544	1000	490	445	426	408	307	277	252	303	320	326	306	200				
sale Vuics	1x6	SAFE	1200	006	720	009	514	400	400	423	400	400	360	327	313	300	200	277	170	497	757	240	205	644				
30	1x4		533	400	320	267	306	212	213	188	470	1/8	160	145	139	133	130	173	173	119	114	107	100	201				-

The safe loads estimated are for *clear* pieces and *full* sizes. On account of scant sizes and more or less defective stock, an allowance of 20 per cent must be made. For example, the safe load for a 1 x 8-8 is 1600 pounds, and for a 2 x 8-8 two times this or 3200 pounds. But for reasons stated 20 per cent must be deducted, reducing the safe load of a 2 x 8-8 to 2560 pounds.

The safe load for fir is 90 per cent of above long leaf yellow pine, for white oak 75 per cent; for short leaf yellow pine and Norway pine 70 per cent; hemlock 65 per cent; white pine 60 per cent; spruce 70 per cent; cast iron 222 per cent; wrought iron 666 per cent, and medium steel 888 per cent.

- I. When the load is concentrated midway between the supports, take only half of above load.
- II. For beams fixed at one end the other unsupported and the load uniformly distributed takes onefourth of above loads, if the load is concentrated on the unsupported end, then take only one-eighth of above.
- III. In the above, the safe load includes the weight of the joists, which must be deducted to get the net or superimposed safe load.
- IV. Joists longer than 12 times their width used without intermediate supports are apt to crack plastered ceilings.

Safe Loads for Long Leaf Yellow Pine and Fir Columns Standing Plumb, Supported at the Ends Only

8 10 12 14 16 18 12160 11200 10240 9280 4x4 8320 7360 18200 11200 10240 9280 4x4 8320 7360 18200 18800 15360 12920 4x6 12480 11040 18200 18760 1750 16800 27400 23600 2300 30200 18760 1750 34500 6x8 3260 3340 40300 48000 45600 43200 6x10 24500 3440 56400 48000 45600 43200 6x10 32890 31450 64000 52400 5250 5060 8x1 48600 46700 80000 6500 6500 65320 8x1 73000 78400 100000 10000 10270 9980 10x1 1100 10980 103900 103900 104400 114400 12x1 <td< th=""><th></th><th>-Length of</th><th>Post, Feet-</th><th></th><th>-Size of Post-</th><th></th><th>ENGTH OF I</th><th>Posr, Feer-</th><th></th></td<>		-Length of	Post, Feet-		-Size of Post-		ENGTH OF I	Posr, Feer-	
NCHES San	∞	10	12	14		16	18	20	22
11200 10240 9280 4x4 8320 16800 15360 152920 4x6 15460 28800 27400 25900 6x8 15460 38400 36500 34600 6x8 32600 48000 45600 43200 6x10 40800 54400 52500 50600 8x10 48600 68000 65600 6320 8x10 48600 81600 78700 7880 8x10 5680 61970 60190 58350 9½ diam. round 48600 100000 65000 63200 8x10 73000 1100000 102700 99800 10x10 56580 1103900 102700 99800 10x12 80800 1144000 116800 114500 10x12 114100 168000 168000 16x12 161300 168000 165100 12x12 161300 168000 16x16 16		Pour	NDS		INCHES		Pour	NDS	
16800 15360 12920 4x6 12480 18760 17550 16500 5½ diam. round 15460 28800 27400 25900 6x6 24500 48000 45500 43200 6x10 40800 54400 55500 50600 8x8 32890 54400 52500 63200 8x10 48600 68000 65600 63200 8x10 50800 81600 78700 78800 8x12 73000 61970 60190 58350 9½ diam. round 50800 120000 102700 99800 10x10 50800 140000 102700 99800 10x14 113100 168000 19800 10x14 113100 168000 144500 12x12 1441100 168000 165100 12x14 161300 196000 168000 16x16 16x16 196000 256000 256000 16x16 <td>2160</td> <td>11200</td> <td>10240</td> <td>9280</td> <td>4x4</td> <td>8320</td> <td>7360</td> <td>6400</td> <td>5440</td>	2160	11200	10240	9280	4x4	8320	7360	6400	5440
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28800 27400 25900 6x6 24500 38400 36500 34600 6x8 32600 48000 45600 43200 6x10 40800 37130 35710 34300 7½ diam. round 32890 54400 52500 50600 8x8 48600 68000 65600 63200 8x10 60800 61970 58350 9½ diam. round 5680 10000 85600 83200 10x10 14000 119800 116500 10x12 14400 119800 116500 10x14 16800 14400 12380 12x12 16800 16510 12x12 141100 19200 16510 14x14 16130 19600 25600 25600 16x16 258940	9500	18760	17550	16500	51/2 diam. round	15460	14416	13395	12350
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68000 65600 63200 8x10 60800 81600 78700 76800 8x12 73000 100000 85600 58350 10x10 56580 12000 102700 99800 10x12 97000 14000 119800 116500 10x14 113100 16800 14400 123800 12x12 121000 16800 16800 14450 12x14 141100 19200 19600 19600 16x14 161300 256000 256000 25600 16x16 169100 256000 32400 32400 32400 28940	4000	54400	52500	20600	8x8	48600	46700	44800	42880
81600 78700 76800 8x12 73000 61970 60190 58350 9½ diam. round 56580 120000 102700 99800 10x10 97000 14000 116500 116500 10x14 113100 14400 14400 12380 11½ diam. round 86550 16800 16800 14450 12x12 141100 19200 19200 14500 12x14 141100 19200 19600 16x14 16910 256000 256000 25600 16x16 256000 256000 16x16 258940 324000 324000 32400 32400	0000	68000	65600	63200	8×10	00809	58400	56000	53600
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192000 192000 165100 12x16 161300 196000 196000 196000 14x14 169100 256000 256000 256000 16x16 225300 324000 324000 324000 324000 289400	8000	168000	168000	144500	12x14	141100	137800	134400	127680
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256000 256000 256000 324000<	0009	196000	196000	196000	14x14	169100	165800	162400	155800
324000 324000 324000 18x18 289400	0009	256000	256000	256000	16x16	225300	221400	217600	209900
	4000	324000	324000	324000	18x18	289400	285100	280800	272160
400000 400000 20x20 400000	0000	400000	400000	400000	20x20	400000	356800	352000	342400

On the previous page are results of full size columns tested at the United States arsenal at Watertown, Mass., by James H. Stanwod, who is instructor in civil engineering at Massachusetts Institute of Technology, as quoted by Frank E. Kidder in his "Architect's Pocket-Book." The table is based on the following formula:

Safe load per square inch of cross section =

Other woods gave the following, to-wit: Short leaf yellow pine:

Safe load per square inch of cross section =

$$850 - (8.5 \times \frac{\text{length in inches}}{\text{breadth in inches}})$$

Oak and Norway pine:

Safe load per square inch of cross section =

750 —
$$(7.5 \times \frac{\text{length in inches}}{\text{breadth in inches}})$$

White pine and spruce:

Safe load per square inch of cross section =

$$625 - (6 \times \frac{\text{length in inches}}{\text{breadth in inches}})$$

For the breadth use shortest side, i.e., in a 4×6 the breadth is 4 inches. The results from above equasions multiplied by area of cross section give the safe load in pounds.

How to Figure Lumber Board Measure

Lumber is usually reckoned by Board Measures, the unit being a square foot one inch thick.

Lumber less than one inch thick is usually figured as of one inch.

The ordinary way of finding the contents of squared lumber is to multiply together the length in feet, the width and thickness in inches and divide the product by 12.

Figuring lumber by the above rule is a slow process, and the following system is adopted by experts whose business makes rapid calculation essential to their success.

Multiply together the thickness and width in inches, divide the product by 12 and multiply result by the length; the answer is Board Measure contents.

Examples

A few examples will show the system for finding the contents of standard sizes in a few seconds and many of them without a moment's hesitation.

Example: Find the Board Measure contents of the following sizes:

Pcs.	Size	Length	В. М.
1 -	2x 8 inches	30 feet	40
1	4x10 inches	18 feet	60
1	10x10 inches	36 feet	300
1	20x20 inches	60 feet	2000

Operation

2x8 equals 16 divided by 12 equals 16/12 or 11/3. When this is multiplied by the length the answer is 40 feet; in other words, add one-third to the length and you have the Board Measure contents.

Operation

 4×10 equals 40 divided by 12 equals $3\frac{1}{3}$ or 10/3. In this instance a cipher is added to the length and when this is divided by three the result is 60 feet Board Measure contents.

10x10 equals 100; this divided by 12 equals 8½, or 100/12. It is easier to multiply by 100 and divide by 12 than to multiply by 8½, therefore add two ciphers to the length and divide by 12; the result is 300 feet Board Measure contents.

20x20 equals 400, divided by 12 equals 33\(\frac{1}{3}\), or 100/3. All that is necessary is to add two ciphers to the length and divide by 3; the result is 2000 feet, Board Measure contents.

After a short reflection on the above method, it will be apparent to everyone that when this system is used I have made good my statement that the contents of any ordinary stick of lumber can be figured inside of a few seconds.

The following standard sizes and multiples for same will serve as a basis for practice, and when memorized will benefit those who wish to become rapid in figuring lumber, and at the same time may prove a stepping stone to a better position and successful career.

Standard Sizes and Multiples

- 1 x 3 Divide lineal feet by 4.
- 1 x 4 Divide lineal feet by 3.
- 1 x 6 Divide lineal feet by 2.
- 1 x 8 Multiply lineal feet by 2 and divide by 3.
- 1 x10 Multiply lineal feet by 10 and divide by 12.
- 1 x12 Lineal feet and Board Measure the same.
- 2 x 3 Divide lineal feet by 2.
- 2 x 4 Multiply lineal feet by 2 and divide by 3.
- 2 x 8 Add to lineal feet 1/3 of amount.
- 2 x10 Multiply lineal feet by 10 and divide by 6.
- 2 x12 Multiply lineal feet by 2.
- 3 x 3 Multiply lineal feet by 3 and divide by 4.
- 3 x 4 Lineal feet and Board Measure the same.
- 3 x 6 Add to lineal feet 1/2 the amount.
- 3 x 8 Multiply lineal feet by 2.
- 3 x10 Multiply lineal feet by 10 and divide by 4.
- 3 x12 Multiply lineal feet by 3.
- 4 x 4 Add to lineal feet 1/3 of amount
- 4 x 6 Multiply lineal feet by 2.
- 4 x 8 Multiply lineal feet by 3 and subtract ½ lineal feet from amount.
- 4 x10 Multiply lineal feet by 10 and divide by 3.
- 4 x12 Multiply lineal feet by 4.
- 8 x 8 Multiply lineal feet by 51/3.
- 10x10 Multiply lineal feet by 100 and divide by 12.
- 12x12 Multiply lineal feet by 12.
- 14x14 Multiply lineal feet by 161/3.
- 16x16 Multiply lineal feet by 211/3.
- 18x18 Multiply lineal feet by 27.
- 20x20 Multiply lineal feet by 100 and divide by 3.
- 22x22 Multiply lineal feet by 401/3.
- 24x24 Multiply lineal feet by 48.

Another Method

A handy method for computing Board Measure contents preferred by a number of lumbermen is as follows: For all 12 ft. lengths multiply width by thickness.

For all 14 ft. lengths multiply width by thickness and add 1/6.

For all 16 ft. lengths multiply width by thickness and add 1/3.

For all 18 ft. lengths multiply width by thickness and add 1/2.

For all 20 ft. lengths multiply width by thickness and add 2/3.

For all 22 ft. lengths multiply width by thickness and add 5/6.

For all 24 ft. lengths multiply width by thickness and double.

Some objection may be taken to the use of 2/3 and 5/6, but often by transposition you can substitute 1/6, 1/3 or 1/2 as in the following:

Examples:

10 pcs. 1x18—22 changed to 10 pcs. 1x22—18. 16 pcs. 1x22—20 changed to 20 pcs. 1x22—16.

In the first example instead of multiplying 10x18 and adding 5/6 to the result, multiply 10x22 and add one-half to the result, which will give 330 ft. Board Measure. In the second item instead of multiplying 16x22 and adding 2/3 multiply 20x22 and add 1/3 which gives 586% ft. Board Measure.

The above system is very handy when figuring lumber from 12 to 24 feet in length and also where odd widths and thicknesses frequently occur.

To Convert Board Measure to Lineal Feet, simply reverse the multiple used to bring lineal feet to Board Measure; in other words, multiply Board feet by 12 and divide by thickness and width.

Example: How many lineal feet are there in 1000 feet Board Measure of 2x8?

Process:

750 lineal feet. Answer.

Car orders frequently call for a specified amount of sizes containing special lengths. Before proceeding to load it is necessary to find the number of pieces required.

Find the number of pieces in the following order:

1000 ft. B. M. 2x4-14. 1000 ft. B. M. 2x4-16. 1000 ft. B. M. 2x4-20.

Bring the Board Measure to lineal feet as shown in previous example, then divide the length into lineal feet. The result will be the number of pieces.

Process:

1000 12 2) 12000 4) 6000 1500 lineal feet.

The lineal feet given is now divided by the respective lengths and the following answer is obtained:

107 Pcs. 2x4—14 containing 998 ft. 8 in. B. M. 94 Pcs. 2x4—16 containing 1002 ft. 8 in. B. M. 75 Pcs. 2x4—20 containing 1000 ft. B. M.

276

3001 ft. 4 in. B. M.

FIGURING SQUARE TIMBERS

This method of computing the Board Measure contents of square or rectangular timbers that exceed 12 inches one or both ways, is known to but very few, if any, lumbermen. It is a rapid way of figuring the majority of sizes, and on account of its simplicity the system is easily committed to memory.

Depreciation

f s	Stores	Depre- ciation per Year	31%	172	772	313	000	S	31/3	9	16	16	31/3	S	9	2	:	31/3	S	31/3
ingle Roo	Sto	Average Dura- tion	Years 30	99	40 66	30	13	20	30	16	9	9	30	20	16	20		30	20	30
BRICK, Shingle Roofs	lings	Depre- ciation per Year	21%	11.00	77	373	2	∞	31/3	9	14	14	31/3	S	9	2	:	21/2	31/3	31/3
B	Dwellings	Average Dura- tion	Years 40	75	40	30	20	13	30	16	7	7	30	20	16	50	v:	40	30	30
	The Constituent Dorte	of Buildings	Base.	Brick	Cornice Dimension lumber	Doors and trim.	Floors.	Hardware	Inside blinds	Outside blinds	Paint, inside	Paint, outside	Plaster	Porches.	Shingles of wood	Sheathing	Siding	Sills and first floor joists	Stairs.	Windows
	Dwellings	Depre- ciation per Year	21%		27/2	31/3	S	S	31/3	9	14	20	S	ro	9	2	31/3	4	31/3	31/3
FRAME .	Dwe	Average Dura- tion	Years 40	:	40 50	30	20	20	30	16	1	Ŋ	20	20	16	20	30	25	30	30
FRA	Stores	Depre- ciation per Year	31%		25%	4 4	∞	∞	31/3	9	20	20	9	5	9	21/2	31/3	4	S	4
	Sto	Average Dura- tion	Years 30		90.04	25	13	13	30	16	S	S	16	20	16	40	30	25	20	25

The facts in the above table were compiled by Mr. A. W. Spaulding for the Fire Underwriters' Association of the Northwest. Mr. Spaulding's investigation covered twenty-seven cities and towns in eleven western states, and it is believed that the table is as accurate as it is possible to produce. This Actuary table will enable lumbermen to pass upon the value of the constituent parts of any kind of building.

How to Make Blue Prints

The paper, which may be bought ready for use, should be stored in a dry place and be entirely shielded from the sunlight until used.

- 1. Provide a smooth board as large as the tracing to be copied.
- 2. Lay on this two or three thicknesses of common blanket to give a slightly yielding backing for the paper.
- 3. Lay on the blanket the prepared paper with the sensitive side up.
- 4. Lay on the paper the tracing, smoothing it out as perfectly as possible to insure perfect contact with the paper.
- 5. Lay on the tracing a piece of clear plate glass, which should be heavy enough to press the tracing close down upon the paper.
- 6. Expose the whole to a clear sunlight from six to ten minutes. If a clear sky can be had, the exposure must be continued from thirty to forty-five minutes, and under a cloudy sky sixty to ninety minutes.
- 7. Remove the prepared paper and drench it in clear water, and hang it up by one corner to dry.

The paper is of a full yellow or bronze color. After the exposure to the light the surface becomes a darker bronze and the lines of the tracing appear still darker on the surface. Upon washing the paper the characteristic blue tints appear with the white lines of the tracing in vivid contrast.

Rafters and Gables

	Area of Two Gables		18	32	41	50	72	86	128	162	200	242	288	338	392	450	512	Add also to make stock
	From Plate to Comb	in.	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	len to
НАГР РІТСН	Plat Co	ft.	200	4	4	r,	9	7	∞	6	10	11	12	13	14	15	16	A 44 0
HALF	Length of Rafter	in.	80	000	S	1	9	11	4	6	2	1	0	9	11	4	6	raina
	of R	ft.	4 4	0 10	9	7	∞	6	11	12	14	15	17	18	19	21	22	for cornice
	Area of Two Gables		12	21	27	33	48	- 65	85	108	133	161	192	225	261	300	341	projection
	From Plate to Comb	in.	0	# œ	0	4	0	00	4	0	×	4	0	8	4	0	00	posino
Рітсн	Fre Plat Col	ft.	20	10	3	3	4	4	S	9	9	1	00	∞	6	10	10	the d
Тивр Рітсн	Length f Rafter	in.	7	10	r.	0	2	S	1	10	0	2	l ro	7	10	0	7	21103
	Length of Rafter	ft.	2	4 4	2	9	1	·∞	6	10	12	13	14	15	16	18	19	to alled the decimal
	Area of Two Gables		9	16	20	25	. 36	49	64	.81	100	121	144	169	196	225	256	
	From Plate to Comb	in.	9	0	3	9	0	9	0	9	0	00	0	9	0	9	0	1
PITCE	Plat Con	ft.		7	2	2	3	3	4	4	W	, v.	9	9	7	1	- ∞	
FOURTH PITCH	Length of Rafter	in.	4:	11	0	7	00	10	0	-	C	14	110	9	000	0	11	11.
		ft.	m	o 4	S	7.	9	7	6	10	-	112	13	14	15:	16	17	1
	Width of Building		91	- 00	6	10	12	14	16	18	, 00	22	24	26	28	30	32	1

To the lengths of rafters above given must be added the desired projection for cornice. Add also to make stock lengths.

In area of gable above given no allowance is made for waste or laps.

To verify above or obtain length of rafters for buildings of other widths than above given multiply the width of building by .559 for 4th pitch; by .6 for 3d pitch and by .71 for half pitch. For length of rafter on one-way roofs, take the rafter given for double the width thus: The rafter for a one-way on a building 10 feet wide, 4th pitch is that given for 20 feet wide or 11 feet, 2 inches. roof

Capacity, in bushels, of cribs or bins, each Eight feet high in the clear

	30	771								1 1920											
	2 26	1								1607 2006											
	18 WII	Ī								1286											
	16									1234											
	-	Length 4	· W	,	0	7	∞	6	10	12	14	16	10	2	20	22	24	26	28	30	
	14	360	450	001	240	630	720	810	006	1080	1260	1440	1,000	1070	1800	1980	2160	2340	2520	2700	
	12	-								926											
	10 10	257	321	206	300	450	514	579	643	771	890	1020	1157	1007	1280	1414	1543	1671	1800	1928	2000
	00	206	257	300	500	300	411	463	514	617	720	823	900	1000	1029	1131	1233	1337	1440	1543	1616
H																					

How large a bin shall I build to hold 800 bushels? is a very common question. To answer this and similar ones instantly is the object of above table, thus: How long a bin 8 feet wide and 8 feet high is required to hold 800 bushels of soals? Run down the 8-foot column until 823, the nearest amount to 800 bushels, is reached, and opposite, in the center column headed length, is 16, the length required. For ear corn divide above quantities by 2; i.e., a bin 8x8x16 will hold only 411 bushels car corn. For bins 10 feet high add ¼ to above.

Area of Openings

36"	6.00 6.25 6.50 6.75 7.00	7.25 7.50 7.75 8.00 8.25	8.50 8.75 9.00 9.25 9.50	9.75 10.00 10.25 10.50 10.75	11.00
34"	5.67 5.90 6.14 6.37 6.61	6.85 7.08 7.32 7.55	8.03 8.26 8.50 8.73 8.97	9.21 9.44 9.68 9.91 10.15	10.39 10.62 10.86 11.09
32" "12" 27. 8"	5.33 5.33 5.78 6.00 6.22	6.44 6.67 6.89 7.11 7.33	7.55 7.78 8.00 8.22 8.44	8.66 8.89 9.11 9.33	9.77 10.00 10.22 10.44
30"	5.00 5.21 5.42 5.62 5.83	6.04 6.25 6.46 6.67 6.87	7.08 7.29 7.50 7.71	8.12 8.33 8.54 8.75 8.96	9.16 9.37 9.58 9.79
	HIGH 24"=2' 0" 25"=2' 1" 27"=2' 3" 27"=2' 4"	29°=2′ 5° 30°=2′ 6° 31°=2′ 7° 32°=2′ 8° 33°=2′ 9°	34"=2'10" 35"=2'11" 36"=3'0" 37"=3'1" 38"=3'2"	39° = 3′ 3″ 40° = 3′ 4″ 41° = 3′ 5″ 42″ = 3′ 6″ 43″ = 3′ 7″	44"=3' 8" 45"=3' 9" 46"=3' 10" 47"=3' 11"
28"	4.67 4.86 5.06 5.25 5.44	5.64 5.83 6.03 6.22 6.42	6.61 6.80 7.00 7.19 7.39	7.58 7.78 7.97 8.16 8.36	8.75 8.75 8.94 9.14
WIDE 26"	ARE FEET 4.33 4.51 4.69 4.87 5.05	5.24 5.42 5.78 5.78	6.14 6.32 6.50 6.68 6.86	7.04 7.22 7.40 7.58	7.94 8.12 8.30 8.40
24"	4.00 4.17 4.33 4.50 4.67	4.83 5.00 5.17 5.33 5.50	5.67 5.83 6.00 6.17 6.33	6.50 6.67 6.83 7.00 7.17	7.33 7.50 7.67 7.83
22"	3.67 3.82 3.97 4.12 4.28	4.43 4.74 4.89 5.04	5.19 5.35 5.50 5.65 5.80	5.96 6.11 6.26 6.42 6.57	6.72 6.87 7.03 7.18

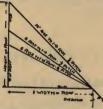
				_		_		_	_		_	_				_	_	_			_	_		_
36"	12.25	12.50	13.00	13.25		13.75								15.75					17.00	17 25	17.50	17 75	18.00	58 in the
34"	FEET 11.57	11.80	12.27	12.51		12.98						14.40			15.11	15.34	15.58	15.81	16.05				17.00	
32" WIDE	10.88	11.11	11.55	11.77		12,22						13.55					14.66						16.00	the 36-inch co
30"	10.21	10.62	10.83	11.04		11.45						12.70					13.74						15.00	inches read in
-	49"=4' 1'				=4'	55"=4' 7"	=4'	=4'	=4	59"=4' 11"	= 2,	= 2,	= 2,	= 5,	= 5'	= 5'	66"=5' 6"	= 5'	= 2,	= 5'	=5'	=5'	72"=6 0"	36 by 58
2' 4"	9.52	9.91	10.11	10.30		10.69				11.47							12.83			13.41		13.80		t in an opening
WIDE 26" 2' 2"	8.84 0.07				9.75	9.93	10.11	10.29	10.47	10.65					11.55					12.45				the square feet
24"	8.17	8.50	8.66	0.03	00.6	9.16	9.33	9.50	2.00	9.83					10.66					11.50			12.00	Explanation-For t
22" I' 10"	7.48	7.79	7.94	0.03	8.25	8.40				9.01					9.77	9.93	10.08	10.23	10.39	10.54			91	Expla

inches read in the 36-inch column opposite 58 in the

Roof Pitches

This diagram shows the three standard roof pitches that are used by all carpenters who put up buildings. But some good workmen are not sure of all the terms that are used to describe them.

Pitch means the angle or slant of the rafters in a straight line from the eaves to the peak of the roof.



Rise means the verticle elevation of the rafter at a given point. The term "rise" is always used in connection with the term "run." A roof rises a certain number of inches to each foot of the run.

Run is the horizontal measurement from the plate to the center line of the building.

Rise is the vertical climb of the rafter expressed in feet.

For example, the rise of a half pitch roof is equal to the run, which means that the distance from the plate to the center line of the building is the same as the distance from the center line to the peak. The rise of a one-quarter pitch roof is just half as much.

The Actuary Way to Figure Roof Spaces

The exact area of any roof, regardless of its shape, no matter how it may be cut up, is accurately determined as follows. Get the exact area from outside to outside of the walls on the level of the plates on which the rafters rest and add for the different roof pitches as follows:

One-fourth pitch add to area on square....12 per cent One-third pitch add to area on square....20 per cent One-half pitch add to area on square....42 per cent Three-eighths pitch add to area on square...5 per cent Five-eighths pitch add to area on square...60 per cent Three-fourths pitch add to area on square...80 per cent

To the results thus obtained add the cornice projection all round. This gives the roof area sufficiently accurate for all practical purposes. For illustration, take a third pitch hip-roof—building 30 by 30 or 900 square feet at the square. Adding 20 per cent, or 180, gives 1080 as the roof area, including all dormers but excluding all cornice projections. Had there been a deck 5 by 6, or 30 square feet, then 30 plus 20 per cent should be deducted or 36 feet from 1080 = 1044 as the roof area, exclusive of deck and cornice projections.

Actuary's Estimate Tables

To Find Quantities of Lumber Required

- STUDDING on 16 inch centers. Estimate one to the lineal foot. This allows for doubling at openings and at corners.
- JOISTS AND RAFTERS on 16 inch centers. To 34 of the length of the building add 1, thus: For a building 16x32, 34 of 32 = 24, to which add 1, or 25, being the joists required, or the rafters for 1 side. Add 1 or 2 for each bearing partition.
- ROOF SHEATHING LAID SOLID. To full area of roof add 10 per cent for waste. If laid 2 inches apart 3/4 of above will be required.

ARTICLE	Count Width	Face Width	Loss in Matching	To area to be Covered Add
Shiplap	12 inch 10 " 8 " 6 " 414 " 3 " 234 " 212 "	11 1/4 9 1/4 7 1/4 5 1/4 3 1/2 3 1/4 2 1/4	7 % 4 11 4 12½ 4 12½ 4 18 4 19 4 25 4 20 4 25 4	1-12 1-10 1-8 1-5 1-5 1-5 1-4 14 18

Drop siding, ceiling, and partition same as above.

	ARTI	CLE			Size	Exp	posed	To area to be Covered Add
Siding,	bevele	ed	٠.	, · ·	½x4 1/2x4	31/4	inch	1/4
"	"	• • •	• •		1/0v4	23/	66	12
и	"	• • •	• •		1/2x5	41/	ш	1-5
ш	"	• • •	• •		1/0×5	1 4	4	1/4
ш	"		• •	• • •	1/2x5	33/	"	12
u	"		• •		1/0×6	51/	ш	1-5
"	"	• • •	• •		1/2×6	5 4	и	9-40
"	"		• •		1/0×6	43/	"	1/4

SHINGLES

When exposed

4"	to	the	weather	require	9	to	the	sq.	ft.	}
41/2"	66	66	66	-66	8	66	66	66	66	Add
5"	66	66	66	66	71/-	66	66	66	66	} 1-10 for
51/2"	66	66	66	66	61/2	66	66	66	66	Waste
6"	-66	66	"	"	6	66	66	"	66	Add 1-10 for Waste

CORNICES. Multiply the total lineal feet, by the combined width of planceer, frieze, and fascia thus: If the planceer is 12 inches, the frieze 8 inches, and the fascia 4 inches, the combined width is 24 inches or 2 feet b. m. to the lineal foot of cornice.

CORNER BOARDS AND OUTSIDE BASE. Estimate on same plan as cornices and then add 1/4 if of 11/4 or 1/2 if of 11/2 stuff.

BRIDGING. Multiply the total lineal feet, measuring each string in a straight line by the following:

For 2x6, 2x8 or 2x10 on 16 inch centers by 2

" 2x12	16	66	"	" 21/4
" 2x14	16	66	"	" 21/2
" 2x6 and 2x8	12	66	"	" 2
" 2x10 and 2x12	12	66	"	" 21/4
" 2x14	12	66	66	" 2%

LATTICE

11/8	wide	multiply	area	by	12	for	lineal	feet	required.
		66							
13/4	66	66	66	66	8	"	44	. "	"

LATH

Lath when laid $\frac{3}{8}$ inch apart, as for lime, require $1\frac{1}{2}$ to the square foot, or $13\frac{1}{2}$ to the square yard to which add 4% for waste, making practically 14 to the square yard. So to find the lath required increase the square feet to be lathed by $\frac{1}{2}$ thus: 900 square feet require $900 + \frac{1}{2}$ of 900 or 1350 lath plus 4% = 1404.

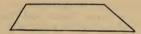
When laid ¼ inch apart, as for cement plasters, require 7 per cent more lath.

When there are no openings add 10 per cent to amount obtained by above.

Tapering Lumber

How to Figure Trapezoids, or Boards With Only Two Parallel Sides

Find the Board Measure contents of a board one inch thick, whose parallel sides are 16 feet and 20 feet in length and 8 inches wide.

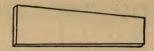


Add together the two parallel sides, and divide their sum by 2, multiply the result by the inches in width and divide by 12. The answer is 12 feet Board Measure contents:

Operation:

12 ft. Board Measure.

Find the Board Measure contents of a board one inch thick, 24 feet long whose parallel ends are 10 inches and 18 inches respectively.



Operation:

28 ft. Board Measure.

Square Feet in the Ceiling and Four Walls of Rooms

		WITTE OF			-	Commes					
3 4	5	WIDE 6	7	8		6	10	FEET	WIDE 12	13	14
110		AKE FEET-	161	1781	eet Lor	105	212	-AREA SO	UAR	282	100
128		164	182	200	4	218	236	254		200	307
146		184	203	222	100	241	260	279		317	336
164		204	224	244	9	264	284	304	L	344	364
182		224	245	266	7	287	308	329		371	30
200		244	266	288	00	310	332	354		398	420
218		264	287	310	6	333	356	379		425	448
236		284	308	332	10	356	380	404		452	470
254		304	329	354	11	379	404	429		479	594
272		324	350	376	12	402	428	454		506	532
290		344	371	398	13	425	452	479		533	560
308		364	392	420	14	448	476	504		560	588
326		384	413	442	15	471	200	529		587	616
344		404	434	464	16	494	524	554		614	644
362		424	455	486	17	517	548	579		641	677
380		444	476	508	18	540	572	604		899	2007
398		464	497	530	19	563	596	629		695	728
416		484	518	552	20	586	620	654		722	756
434		504	539	574	21	609	644	629		749	784
452		524	560	596	22	632	899	704		776	812
470		544	581	618	23	655	692	729		803	840
488		564	602	640	24	678	716	754		830	868
206		584	623	662	25	701	740	779		857	896
524		604	644	684	26	724	764	804		884	924
542		624	665	200	27	747	788	829		911	952
560		644	989	728	28	770	812	854		938	980
578		664	707	750	53	793	836	879		965	1008
596		684	728	270	20	7 00	0/0	. 00			

Square Feet in the Ceiling and Four Walls of Pooms-Cont.

	25 26												896 924	1													
	WIDE 24	JARE FEET—450	488	526	564	602	640	849	716	754	792	830	808	000	982	1020	1058	1096	1134	1172	1210	1248	1286	1324	1362	1400	1438
	23		470	202	544	581	618	655	692	729	992	803	840	017	951	988	1025	1062	1099	1136	1173	1210	1247	1284	1321	1358	1395
	22	416	452	488	524	560	596	632	899	704	740	776	812	040	920	956	992	1028	1064	1100	1136	1172	1208	1244	1280	1316	1352
7-Foot Ceilings	21	3 399	4 434	5 469	504	7 539	8 574	609 6					784						_	-		_					
oot C	1	reer	7	4,					_				41														
7-F	20	382	416	450	484	518	552	586	620	654	688	722	756	824	858	892	976	096	994	1028	1062	1096	1130	1164	1198	1232	1266
	19	365	398	431	464	497	530	563	596	629	662	695	728	704	827	860	893	926	959	992	1025	1058	1001	1124	1157	1190	1223
	1 WIDE 18	348 348	380	412	444	476	208	540	572	604	636	899	733	764	796	828	860	892	924	956	986	10.70	1052	1084	1116	1148	1180
		348 348	380	412	444	476	208	540	572	604	636	899	733	764	796	828	860	892	924	956	986	10.70	1052	1084	1116	1148	1180
	1 WIDE 18	331 348	362 380	393 412	424 444	455 476	486 508	517 540	548 572	579 604	610 636	641 668	733	734 764	765 796	796 828	827 860	858 892	889 924	920 956	951 988	087 1070	1013 1052	1044 1084	1075 1116	1106 1148	1137 1180

20-ft. column and opposite 30 read 1300 square feet.

Square reet in the Ceiling and Four Walls of Rooms

	14	1	314	344	374	404	434	164	107	524	554	584	614	644	674	704	734	764	794	824	854	884	914	944	974	1004	1034	1064	1094	1124
100	13	-	295	324	353	387	411	440	460	498	527	556	585	614	643	672	701	7.30	759	788	817	846	875	904	933	962	991	1020	1049	1078
	12 12	TARE FEET	276	304	332	360	388	416	444	472	500	528	556	584	612	640	899	969	724	752	780	808	836	864	892	920	948	916	1004	1032
	11	-AREA SQU	257	284	311	338	365	392	410	446	473	500	527	554	581	809	635	662	689	716	743	770	797	824	851	878	905	932	959	986
	10		238	264	290	316	342	368	394	420	446	472	498	524	550	576	602	628	654	089	706	732	758	784	810	836	862	888	914	940
ings	6	18	219	244	269	294	319	344	369	394	419	444	469	494	519	544	569	594	619	644	699	694	719	744	694	794	819	844	698	894
8-Foot Ceilings		eet Ton	0.	4	2	9	7	00	6	10	11	12	13	14	15	16	17	18	19	70	21	77	23	74	25	26	27	78	53	30
8-Fo	00	1000	200	777	248	272	296	320	344	368	392	416	440	464	488	512	536	260	584	809	632	929	089	704	728	752	176	800	824	848
-	7	404	181	507	227	250	273	296	319	342	365	388	411	434	457	480	503	526	549	572	595	618	641	664	189	710	733	756	179	802
WIDE	9	AKE FEET	701	184	506	228	250	272	294	316	338	360	382	404	426	448	470	492	514	536	558	580	602	624	646	899	069	712	734	756
THEFT	5	AKEA SUU.	143	104	185	206	227	248	569	290	311	332	353	374	395	416	437	458	479	200	521	542	563	584	903	979	647	899	689	/10
	4	124	177	144	104	184	204	224	244	264	284	304	324	344	364	384	404	424	444	404	484	504	524	544	304	584	604	624	044	004
	3	105	124	471	143	162	181	200	219	238	257	576	293	314	333	352	3/1	390	409	874	447	400	485	504	273	542	201	280	240	010

Square Feet in the Ceiling and Four Walls of Rooms-Cont.

1	56	542	584	626	899	710	752	794	830	878	920	796	1004	1040	1088	1130	1172	1214	1256	1298	1340	1382	1424	1466	1508	1550	1592	1634	1676	down the
	25	523	564	605	646	687	728	769	810	851	892	933	974	1015	1056	1097	1138	1179	1220	1261	1302	1343	1384	1425	1466	1507	1548	1589		unı ,
B	24	504	544	584	624	664	704	744	784	824	864	904	944	984	1024	1064	1104	1144	1184	1224	1264	1304	1344	1384	1424	1464	1504	1544	1584	feet high
-FRET WIL	23	485	524	563	602	641	089	719	758	797	836	875	914	953	992	1031	0201	100	1148	1187	1226	1265	1304	1343	1382	1421	1460	1499	1538	ceiling 8
	22	Ž		542										ı		• •														30 feet long,
	21			521										1							_							_		wide and 30
		sect Long.	4	2	9	7	00	6	10	=	12	13	14	15	16	17	18	19 1	20 1	21	22 1	23 1	24 1	25 1	26 1	27 1	28 1	29	30 1	feet
	20	428	464	200	536	572	809	644	089	716	752	788	824	860	968	932	896	1004	1040	1076	1112	1148	1184	1220	1256	1292	1328	1364	1400	room 20
	19	409	444	479	514	549	584	619	654	689	724	759	794	829	864	899	934	696	1004	1039	1074	1109	1144	1179	1214	1249	1284	1319	1354	feet in a
Trens.	18	RE FEET-	424	458	492	526	560	594	628	662	969	730	764	198	832	866	006	934	896	1002	1036	1070	1104	1138	1172	1206	1240	1274	1308	tal square
-	17	AREA SQUA	404	437	470	503	536	569	602	635	899	701	734	767	800	833	866	899	932	965	866	1031	1064	1097	1130	1163	1196-	1229	1262	For the to
	16	352	384	416	448	480	512	544	576	809	640	672	704	736	768	800	832	864	896	928	096	992	1024	1056	1088	1120	1152	1184	1216	lanation-
	15	2	4	110	9	7	. 00	0	0	31	612	3	4	15	9	12	80	6	00	-	2	1 (1)	4	5	91	1	80	68	0	Exp

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dimensions of the heads or points. Brads and no-head nails will run more to the pound than table shows, and large or thick headed nails will run less.

Approximate Number of Wire Nails per Pound-Cont.

12	7 6	2	0.1	4.1	5.6	9.9	7		9.	=	12	14	17	21	26	36		:	:	:	:	:			:	•	:	:
11	2 0	-	1.1	2.5	6.1	7.1	0	1.0.	=	=	13	15	19	23	29	40	:	:	:		:	:		:	:			:
10	3 2		5.41	2.1	9.9	7.6	0	,	17	13	14	17	21	25	31	45	:	:::	:	:	:::	: : :	:	:	:		:	:
6	2 4	1	0.0	0.3	7.2	000	0	0.0	17	15	16	19	23	27	35	20	:	:	:	:	:::	:	:	:	:	:	:	:
80	7	1 10	2.0	0.7	8.1	0 4	11	11	14	16	18	21	25	31	39	56	:	:	:	:	:	:	:	:	:	:	:	:
7	V	4 4	0.3	8.0	9.3	=	100	13	16	18	19	24	29	36	44	63	:	:	:	:	:	:	:	:	:	:	:	:
9		10		9.3	11	12	1 1	15	18	70	24	28	34	42	52	71	93	117	145		:	:::	:	:	::	:		:
20	1	۲	>											_	61			_		226	362	112	:	:	:	:		:
41/2	ŀ	-													69								::	:	:			:
4	10 1	,													11								•	:	:			
31/2	I	7			_								_		87)35	-			
3	-			_	-		-		-	=	_	-	_		103	_	-	-	_	-	_	_	_	_				
-		11	16	20	23	27	17	_		_	_	_	_		111	_	_	_	_					_	-			
284	1		~		10		_	_			_					_												
23%	9/1	7	18	21		_	_	_	_	_		_	_	_	122		_	_										
21/4	1	15	20	23	28	200	25	37	41	52	61	74	87	1111	136	182	232	312	390	496	999	890	1205	1620	2020			
Steel Wire Gauge	1	%	200																			18						

These approximate numbers are an Average only, and the Egures given may be varied either way, by changes in the dimensions of the heads or points. Brads and no-head nails will run more to the pound than table shows, and large or thick-headed nails will run 185s.

Estimating Millwork

Contractors, painters, jobbers, carpenters and architects are sometimes unable to list millwork in mill terms. The following sequence by which building material men can readily list millwork for a complete house will be found very helpful.

This arrangement is a progressive one; that is, you start with the first items needed and by listing the ones needed next, the estimator proceeds the same as if he were constructing a building.

If all contractors, builders, carpenters and architects would submit a millwork list to the mills instead of a plan, they would get a price without a list of omissions that causes quite a bit of trouble at the end of the contract and in some cases a lawsuit.

There is no set rule for figuring material, but by following an arrangement that covers all items, there is very little danger of missing anything.

The following sequence was used for all types of buildings from a one car garage to an elaborate residence.

There are several things to remember on all millwork items and should never be omitted. They are:—the kind of wood, the width, the height and the thickness. All sizes and descriptions of articles given in this text are for example only.

Sequence

Frames

- 1. Cellar
- 2. Door
- 3. Window
- 4. Plank
- 5. Casement
- 6. Louvre
- 7. Garage
- 8. Brick arch centers

Cornice

- 9. Gable
- 10. Gutter
- 11. Belt
- 12. Outside base
- 13. Panel strips
- 14. Half timber
- 15. Corner boards

Exterior Millwork

- 16. Hoods
- 17. Brackets
- 18. Porches
- 19. Rough sawn siding
- 20. Wavy cut siding

Interior Millwork

- 21. Plaster grounds
- 22. Windows & Sash
- 23. Exterior doors
- 24. Interior door frames
- 25. Interior door trim
- 26. Interior doors
- 27. Window trim
- 28. Interior mouldings
- 29. Case work
- 30. Stairs

XXXII

(1) Cellar frames

1. Plank cellar frame 10 x 14 3lt.-13% rabt. jamb 134 x 51/4 with brick mould for 8" concrete wall cypress,

1 Steel cellar sash and frame 10 x 20-3 lt.

(2) Door frames

1 Cypress door frame 3-0 x 7-0 134 rabt. jamb 13/4 x 51/2 outside casing 11/8 x 41/4 oak sill 13/4 thick for 6" frame wall,

1 Cypress door frame 3-0 x 7-0 13/4 rabt. jamb 13/4 x 51/2 outside casing 11/8 x 41/4 beveled for stucco 13/4 oak sill, for 6" frame stucco wall,

1 Cypress door frame 3-0 x 7-0 13/4 rabt. jamb 13/4 x 51/2 with 13/8 x 13/4 brick mould for 9" brick wall.

(3) Window frames

1 Box wood frame 26 x 24 13/2 2 lt. brick mould for 9" brick wall,

or

1 Window frame 26 x 24 13/8 2 lt. outside casing 11/8 x 41/4 for 6" frame wall.

1 Window frame 26 x 24 13/8 2 lt. outside casing 11/8 x 41/4 keyed for stucco.

(4) Plank frames

1 Plank sash frame 24 x 36 13% rabt. 1 lt. jamb 13/8 x 51/4 with brick moulding for 9" brick wall.

1 Plank sash frame 24 x 36 13/8 rabt. 1 lt. jamb $1\frac{3}{8} \times 5\frac{1}{4}$ with $1\frac{1}{8} \times 4\frac{1}{4}$ outside casing for 6" frame wall,

or

1 Plank sash frame 24 x 36 13/8 1 lt. jamb 13/8 x 51/4 with 11/8 x 41/4 outside casing beveled for stucco.

(5) Casement sash frames

1 Casement sash frame for pair sash, each sash 14 x 36 13/8 1 lt. with brick mould for 9" brick wall,

1 Casement sash frame for pair sash, each 14 x 36 13/8 1 lt. with 11/8 x 41/4 outside casing for 6" frame wall,

1 Casement sash frame for pair sash, each sash 14 x 36 13/8 1 lt. with 11/8 x 41/4 outside casing beveled for stucco.

(6) Louvre frames

1 Louvre frame 24 x 36 for 9" brick wall,

or

1 Louvre frame 24 x 36 for 6" frame wall,

1 Louvre frame 24 x 36 for 6" frame stucco wall.

(7) Garage frame

1 Garage door frame 8-0 x 7-6 134 rabt. jamb 134 x 51/4 with brick mould for 9" brick wall.

1 Garage door frame 8-0 x 7-6 134 rabt. jamb 134 x 51/4 with 11/8 x 41/4 outside casing for 6" frame wall,

1 Garage door frame 8-0 x 7-6 13/4 rabt. jamb 13/4 x 51/4 with 11/8 x 41/4 outside casing for 6" frame stucco wall.

(8) Brick arch centers

Give width of opening, then height and radius and state the thickness of the brick or stone wall.

(9) Gable cornice

Lineal feet $\frac{34}{4}$ x $\frac{13}{8}$ edge strip
Lineal feet $\frac{34}{4}$ x $\frac{71}{2}$ S 4 S barge
Lineal feet $\frac{34}{4}$ x $\frac{31}{2}$ crown moulding or barge mld.
Lineal feet $\frac{5}{8}$ x $\frac{31}{4}$ Y.P. soffit (?) boards wide
Lineal feet $\frac{34}{4}$ x $\frac{13}{8}$ bed mould
Lineal feet $\frac{34}{4}$ x $\frac{51}{2}$ frieze

(10) Gutter cornice

Lineal feet $\frac{34}{4} \times 7\frac{1}{2}$ facia Lineal feet $\frac{5}{6} \times 3\frac{1}{4}$ Y.P. soffit (?) boards wide Lineal feet $\frac{34}{4} \times 1\frac{3}{4}$ bed mould Lineal feet $\frac{34}{4} \times 5\frac{1}{2}$ frieze

(11) Belt

Lineal feet $1\frac{1}{8} \times 1\frac{3}{4}$ water table or drip cap Lineal feet $\frac{3}{4} \times 7\frac{1}{2} S 4 S$

(12) Outside base

Lineal feet $1\frac{3}{8} \times 1\frac{3}{4}$ base cap or drip cap Lineal feet $\frac{3}{4} \times 7\frac{1}{2} S 4 S$

(13) Panel strips

Lineal ft. 13/8 x 31/2 panel strip, both edges keyed or beyeled for stucco.

(14) Half timber

In listing half timbering, give lineal ft. or pieces and length and state thickness, kind of wood, and if rough sawn, S 4 S or hand edged, and if edges are chamferred

(15) Corner boards

Lineal ft. 11/8 x 31/2 S 4 S Cypress Lineal ft. 3/4 x 3/4 quarter round Cypress

(16) Hoods

In listing hoods, give size of brackets and distance out from wall and give a pencil sketch.
List gable cornice same as item No. 9.
List gutter cornice same as item No. 10.
List hood ceiling and give amount in board feet.

(17) Brackets

Cornice brackets, etc.—list same as hood brackets and give pencil sketch.

(18) Porches

In listing porch material, it is best to list the porch complete.

Gable cornice same as item No. 9. Gutter cornice same as item No. 10. Lintels, give width, height and length.

Ceiling, give size of material and board feet measure.

Bed mould, give size and amount in lin. feet. Columns, give size and height and state if plain or

panelled. Newels, give size and height and state if plain or panelled.

Pilasters, give size and height.

Porch rail, give length and height, state size of balusters and if nailed up.

Flooring, give size and amount in board feet measure.

Base, give size and amount in lin. ft. Cove, give size and amount in lin. ft.

Lattice panels, give size,—width first, height next. Give dimension of frame material and then the size of the lattice strips and state if they are to run diagonally or horizontally and vertical.

(19) Rough sawn siding

Give amount in feet board measure. Give thickness and width, and state rough sawn.

(20) Wavy cut siding

Give amount in feet board measure. Give thickness and width and state lower edge cut wavy.

(21) Plaster grounds

(a) Give number of sets of window grounds and state size.

(b) Give number of sets of door grounds and state size.

(c) Give lin. ft. of base grounds and state size

(d) Give lin. ft. of wainscot grounds.

(e) Give lin. ft. of picture mould and cornice grounds and give size.

(f) Plastered arch centers, give size.

Example, 1 Plas. arch center 3-0 wide, 4" stud wall cut on 4-0 radius.

(22) Windows and sash

Sizes below are glass openings list width first then height.

State kind of wood, if check rail and lugs are wanted for 2 lt. windows.

(a) 1 plank cellar sash 10 x 20 3 lt. 13/8.

(b) 1 wd. 28 x 26 13/8 2 lt. ck. rl. and lugs,

or

1 wd. 28 x 26 $1\frac{3}{8}$ 2 lt. ck. rl. and lugs top sash cut 3 lts. wide,

or

1 wd. 26 x 26 $1\frac{3}{8}$ 2 lt. ck. rl. and lugs top sash cut 3 wide, 2 high.

(c) 1 pair casement sash, each sash 14 x 26 13/8 1 lt.

or

1 pair casement sash, each sash 14 x 26 13/8 1 lt. divided 2 lts. wide, 4 lts. high.

(d) 1 plank sash 24 x 26 13/8 1 lt.

or

1 plank sash 24 x 26 13/8 1 lt. divided 4 lts. wide,

or

1 plank sash 24 x 26 1 3/8 1 lt. divided 4 lts. wide, 2 lts. high.

(e) 1 transom 32 x 9 13/8, 1 lt.

(23) Exterior doors

Give width, height and thickness. Give size of glass, and if divided; give description of door below the glass and state kind of wood; also give pencil sketch.

Example:

1 door 3-0 x 7-0 13/4, 1 lt. top, 24 x 36 div.

2 wide, 3 high, lower section of door to have

3 cross raised panels, all white pine.

(24) Interior door frames

Give width, height and rabt. Give thickness of jamb and width, and state kind of wood,

Example:

1 in side door frame 2-6 x 6-8 13% rabt. jamb 13% x 53/8 Y.P.

(25) Interior door trim

Give design and dimensions and kind of wood; and list out in sets.

Example: Back band trim

1 side 3-0 x 7-0 Gum.

1 side 2-6 x 6-8 Y.P.

1 side 2-6 x 6-8 Gum.

1 side 2-4 x 6-8 Y.P. closet.

(26) Interior doors

State kind of make, and give stock number, or give description, such as .-2 vertical panel, 2 panel regular or one panel, and mention kind of wood.

Example:

1 door 2-8 x 6-8 x 13/8 one panel Gum. 1 door 2-8 x 6-8 x 13/8 2 vertical panel W.P.

1 door 2 x 6-8 x 13/8 6 panel W.P. 1 door 2 x 6-8 x 13/8 2 panel regular W.P.

(27) Window trim

Give design and dimensions, and kind of wood and list out in sets.

Example:

Back band design.

1 side 26 x 26 2 lt.

1 side plank sash trim 24 x 26 1 lt. Gum.

1 side casement sash trim for pair sash, each sash 24 x 36 1 lt. Y.P.

(Note) Window trim with jamb lining for 13", 15" and 18" walls should be listed here and stated with each set for the certain thickness of walls.

(28) Interior mouldings

(a) List threshhold, give length and kind of wood.

(b) Cornice mould, amount lin. ft. and kind of wood. (c) Base, amount lin. ft. size, design and kind of wood.

(d) Shoe, amount lin. ft., size, design & kind of wood. (e) Closet base, amt. lin. ft., size, design and kind of

wood.

(f) Closet shoe, (amt, lin, ft., size, design and kind of wood).

(g) Picture mld., (amt. lin. ft., size, design and kind of wood).

(h) Chair rail, (amt, lin. ft., size, design and kind of wood). (i) Hood strip, (amt. lin. ft., size, design and kind

of wood).

(i) Shelving, (amt. lin. ft., size, design and kind of wood).

(k) Cleat, (amt. lin. ft., size, design and kind of wood).

(1) Ceiling beams, (amt. lin. ft., size, design and kind of wood).

(m) Cedar closet lining. Give ft. board measure.

(29) Case work

(a) Medicine Case—state whether of metal or wood. size or stock number; size of glass and stud

opening.

- (b) Kitchen cases—state kind of wood, width, height and depth of top section, and also depth of lower section; also, if back is to be of wood or plaster, and if case is to set in recess, or if ends are exposed and paneled-it is best to give a pencilsketch, or if taken from catalogue, give stock number.
- (c) Mantel shelf-state kind of wood, width of mantel breast, depth of shelf, thickness and if ends are returned.

(d) Book cases—state kind of wood, width, height and depth, kind of doors, number of shelves and if case is to set in recess, or if ends are exposed.

(e) Window seats-state kind of wood, length, depth and thickness, and if top is hinged; also height of back, and if paneled. Give height of front

and if paneled.

(f) Panels-state kind of wood, width, height and thickness. Give width and thickness of stiles and rails, and state if panel is built up of veneer or solid and raised type.

(g) Ironing boards-state kind of wood, width, height and depth, and give catalogue number if

possible.

(h) Breakfast nook sets-state kind of wood, and it is best to give size of space into which the set is to go, and mention table and two benches, or table and one bench, as the case may be; and if possible, give stock number or detail.

(i) Phone cabinets-state kind of wood and give

catalogue number or sketch.

(i) Scuttle door frame and trim-state kind of wood. Give length and width of frame and thickness of door, and kind of trim.

(k) Plumbers door frame and trim-state kind of wood. Give width and height of frame, also width of jamb and thickness of door and kind of trim.

(1) Clothes chute door frame and trim-state kind of wood. Give width and height of frame; also width of jamb and thickness of door and kind of trim.

(30) Stairs

In listing stairs, give width, number of treads and risers, kind of wood; also if stairs are box type, open string or closed string. Give stock number of newel and balusters, if any, and sketch of floor plan. Several items on above list should be subject to

measurements by the mill, and should be so stated on list, and mill notified when the items are ready for measure. In general, these items are:-

Inside doors, frames and trim.

All case work. Mantel shelves.

Paneling. Stairs.

2.1 1 12 12 15 L

13/18 B . 1.50 . 9:1

Sizes of Wire

American Steel & Wire Co.'s Steel Wire Gauge

	American Steel & Wire Company's	Sizes of Wire		Weight	Pounds	Feet
	STEEL WIRE GAUGE No.	Common Fractions	Decimally	One Mile Pounds	Per Foot	to Pound
~	1		.2830	1128.0	.2136	4.681
	2	32	.28125	1114.0	.211	
	4		.2625	970.4	.1838	5.441
		1/4	.250	880.2	.1667	
GHITTON .	3		. 2437	836.4	.1584	6.313
	4		.2253	714.8	.1354	7.386
		7 32	.21875	673.9	.1276	
	5		.2070	603.4	.1143	8.750
	6		.1920	519.2	.0983	10.17
	7	3 16	.1875	495.1	.0937	
	•		.1770	441.2	.0835	11.97
	8		.1620	369.6	.070	14.29
	9	32	.15625	343.8	.0651	
	9		.1483	309.7	.0586	17.05
	10		.1350	256.7	.0486	20.57
	44	1/8	.1250	220.0	.0416	
	11		.1205	204.5	.0387	25.82
	12	3 3 2	.1055	156.7 123.8	.0296	33.69
	13	32	.09375	117.9	.0234	44.78
	14		.0800	90.13	.0170	58.58
	15		.0720	73.01	.0138	72.32
	16	16	.0625	55.0	.0104	95.98
	17		.0540	41.07	.0077	128.6
	18		.0475	31.77	.006	166.2
•	19		.0410	23.67	.0044	223.0
	20		.0348	17.05		309.6
	20 1		.0040	17.00	.0052	0.600

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Woven Wire Fences—Zinc Insulated

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INDEX

Acid Etched Nails	. 48
Anchor Nails, Dual Heads	2"
Aspestos Sningle Nails	94
Darbed Car Nails	
Darbett Rooming Nails	0 21
Darbed wire	7 60
Darbiess wire	63
Darge Spikes	49
Darret Mans	90
Basket Nails	. 39
Beer Case Nails 46), 41
Berry Box Nails. Boat Spikes.	. 21
Boat Nails.	. 45
Box Naiis	. 28
Box Nails, Smooth.	, 53
Box Nails, Barbed.	. 14
Diace wire	60
Drads	377
Ditch Staples	P 4
Droom Nans	00
Car Ivans	2 77 2
Casing Nalls	31
Chilch Ivans	OT
Ciotnes Lines,	"
Clout Nails	70
Coiled Spring Steel Fence Wire.	61
Common Nails Concrete Nails	. 9
Coolers Noils	33
Copper Nails.	50
dipica fiead (valis	26
Egg Case Nails Egg Case or Crate Fasteners	40
Electrician's Stanle Nails.	P 4
escutcheon l'ins	9.4
Extras on wire	60
Felt Roofing Nails Fence Nails	
Fence Staples	19 56
rine Nails, Bright	20
rinishing Nails	16
Fire Door Nails.	47
Flat Head Wire Nails Flat Twisted Ribbon Wire	4
Tour Mans, Farquet	61 50
	17
riooring Nails	27
oundry Naus	23
Fox Netting.	68
Fur Farm Netting Galvanized Coiled Spring Steel Fence Wire	68 61
Cate Springe	OI

Gutter Spikes		39
Handy Nail Boxes		35
Hinge Nails	.22,	38
Hoop Fasteners		34
Hoop Nails		34
Hoop Staples		55
Kuphed Barbed Dowel Pins		24
Kuphed Nails		35
Lath Nails		
Leak Proof Roofing Nails.		
List of Products		
Manual of Carpentry		
		46
Meat Tag Fasteners		19
Metal Lath Nails		55
Metal Lath Staples		
Miscellaneous Nails, list prices		
Mrs. McGregor's Nail Boxes		
Nail Card		8
Nails and Brads, Packages		4
No. of R. R. Spikes to keg		44
Pearson Coated Nails		
Plaster Board Nails		25
Poultry Netting		
Poultry Netting Staples		55
Railroad Spikes		44
Ribbon Wire		61
Ribbon Wire Staples		55
Roofing Nails	, 31,	32
Saddlery Nails (Hame Rivets)		39
Shade Nails		33
Shade Roller Pins		
Sheet Roofing Fasteners		46
Shimming Spikes		
Shingle Nails		
Siding Nails		
Sign Nails		
Sinkers		
Sizes of Wires		111
Slating Nails		18
Spikes, Kound	10,	
Staples	ŀ, 55,	50
Steel Fence Post Staples		20
Sterilized Blue Lath Nails Stock Items of Miscellaneous Wire Nails and Brads Stone Wire		6
Stone Wine		62
Tacks	. 64	-65
Tacks Telephone and Telegraph Wire—Perfected		67
Twisted Barbless Ribbon and Coiled Spring Steel Fence	WILE	OI
Wagon Naile		38
Wine	61.	, 63
Wire, Barbed	36	, ou
Wire Rrade		4
Wire Gauge		47
Wire Gauge Wire Nails, Solid Copper		69
Wire Nails, Solid Copper. Wire Netting Clamp. Wire Staples.		09

